

Cecil County Public Schools

201 Booth Street
Elkton, MD 21921
www.ccps.org

Student Education Planning Guide 2016-2017



“Building a Foundation for Lifelong Learning”

A MESSAGE FROM THE SUPERINTENDENT



Dear Students:

The *Student Education Planning Guide* will assist you in choosing your high school course of study and planning for the future. Whether you intend to attend college or technical school, join the military, or enter the workforce, the decisions you make in choosing your classes are very important. Please carefully review the educational opportunities, course descriptions and requirements, and pertinent policies contained in this guide.

I ask you to think about your future goals and to consider your many options. If you are uncertain about which courses will help you to reach those goals, please contact your school counselor for assistance. Your teachers and your parents are other good resources who will help guide you to find the right answers for you. As you make these decisions, remember the importance of hard work. Please take advantage of high school opportunities and challenges in order to prepare yourself for a successful future. Enjoy your high school years, set your goals, and make a plan to achieve them.

I wish you success throughout your high school career and in the years to come.

Sincerely,

D'Ette W. Devine, Ed.D.
Superintendent of Schools

Cecil County Public Schools

MISSION STATEMENT

Our mission is to provide an excellent Pre-Kindergarten through graduation learning experience that enables ALL students to demonstrate the skills, knowledge, and attitudes required for life-long learning and productive citizenship in an ever-changing, global society.

STRATEGIC GOALS

- All students will meet or exceed high academic standards.
- Goal 1:** high academic standards.
- All students will learn in safe, secure, and inviting environments.
- Goal 2:** secure, and inviting environments.
- All students will benefit from effective and efficient support and services provided by a learning organization.
- Goal 3:** effective and efficient support and services provided by a learning organization.

CORE VALUES

Excellence
Safety and Wellness
Integrity
Learning
Flexibility
Collaboration

2016-17 Student Education Planning Guide

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The 2016-2017
Student Education Planning Guide
is published by the
Division of Education Services
Cecil County Public Schools
201 Booth St. • Elkton, MD 21921
Joanna K. Seiberling, *Managing Editor*
Kathleen Olson, *Editor*

Check out the interactive Student Education Planning Guide online at:

www.ccps.org

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••• CAREER CLUSTERS & PATHWAYS •••

Organization and Purpose of the *Student Education Planning Guide*

Organization

The *Student Education Planning Guide* is divided into the following four main sections:

- Career Clusters and Pathways;
- Need-to-Know Information;
- Earning College Credit; and
- Course Descriptions.

Purpose

The *Student Education Planning Guide* will assist each student in developing a long-term, personalized education plan to meet the challenges of the 21st century. Using this guide, students can see the relevance, purpose, and support for individual career goals that high school coursework, service learning, and extracurricular activities provide. This guide will help students, parents, and teachers discuss career goals in order to develop and implement a student graduation plan which takes the student beyond high school. With advanced planning and sustained effort, students can graduate from high school having earned college credit and/or industry certification.

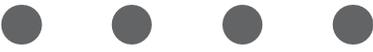
Career Clusters and Pathways

In an effort to prepare students for a rapidly changing workplace, Cecil County Public Schools (CCPS) has developed career clusters and pathways. Career clusters are broad groupings of occupations and industries based on commonalities of services and function. Each career cluster has three or four career pathways. These pathways provide a sequence of courses and suggested options that provide quality preparation for a career in a selected cluster. Based on their interests and aptitudes, students choose a cluster during the second semester of grade 9 and a pathway during the second semester of grade 10. Changes in proposed cluster and/or pathway choices may occur. Although pathways are defined, students, with parent and counselor advisement, may see a need to blend two or more pathways within a cluster in order to achieve a desired sequencing of courses to fulfill future academic aspirations.

CCPS offers four clusters with pathways that are listed to the right.

CLUSTER	PATHWAY
ARTS & COMMUNICATIONS	Digital Arts
	Literary Arts
	Performing Arts
	Visual Communications
BUSINESS, FINANCE, & MARKETING	Business Management
	Finance
	Marketing
HEALTH & HUMAN SERVICES	Education
	Government/Public Services
	Health Services/ Consumer Services
SCIENCE, ENGINEERING, & TECHNOLOGY	Construction, Manufacturing, Science, & Engineering
	Environmental, Agricultural, & Natural Resources
	Information Technology
	Science, Technology, Engineering, Mathematics

How to Use the *Student Education Planning Guide*

<p>Step 1</p> <p>Complete the Career Cluster Interest/Aptitude Inventory (pg. 3) to identify the cluster(s) in which you have the greatest interest/aptitude. To complete your education plan online, visit the Student Education Planning Guide at www.ccps.org.</p>	<p>Step 4</p> <p>Check the educational requirements for years 13 and 14 for your selected pathway. Plan your high school schedule to meet the specific requirements for your area of study.</p>
<p>Step 2</p> <p>Turn to the cluster(s) section in which you have the greatest interest/aptitude. In each pathway, place a check by the careers that interest you. The pathway with the most checks is likely to be the one that best matches your interest.</p> <ul style="list-style-type: none"> • Arts & Communications (pg. 5) • Business, Finance, & Marketing (pg. 10) • Health & Human Services (pg. 14) • Science, Engineering, & Technology (pg. 18) 	<p>Step 5</p> <p>Remove and complete the Student Graduation Plan at the back of this guide (p.70). In consultation with your parent/guardian, counselor, and teachers use the appropriate career cluster and pathway chart (beginning on page 6) to complete your education plan. Use the course descriptions (beginning on page 36) to decide which courses are most appropriate to accomplish your career goals.</p>
<p>Step 3</p> <p>Turn to the Pathway Guide in which you have the greatest interest/aptitude.</p> <p>Arts & Communications</p> <ul style="list-style-type: none"> • Digital ArtsPg. 6 • Literary ArtsPg. 7 • Performing ArtsPg. 8 • Visual Communications.....Pg. 9 <p>Business, Finance, & Marketing</p> <ul style="list-style-type: none"> • Business Management..... Pg. 11 • FinancePg. 12 • MarketingPg. 13 <p>Health & Human Services</p> <ul style="list-style-type: none"> • EducationPg. 15 • Government/Public Services..... Pg. 16 • Health Services/Consumer Services..... Pg. 17 <p>Science, Engineering, & Technology</p> <ul style="list-style-type: none"> • Construction, Manufacturing, Science & Engineering Pg. 19 • Environmental, Agricultural, & Natural Resources Pg. 20 • Information TechnologyPg. 21 • STEM.....Pg. 22 	<div style="text-align: center;">  <p>What activities interest you the most? Complete the chart on the next page to find possible career matches!</p>  </div>

••••• CAREER CLUSTERS & PATHWAYS •••••

Career Cluster Interest/Aptitude Inventory

Put a check (✓) next to each statement that is true for you.

	ARTS & COMMUNICATIONS	BUSINESS, FINANCE, & MARKETING	HEALTH & HUMAN SERVICES	SCIENCE, ENGINEERING, & TECHNOLOGY
Would you like to....?	<input type="checkbox"/> Draw, paint, or work with clay <input type="checkbox"/> Play or listen to music <input type="checkbox"/> Decorate a room <input type="checkbox"/> Participate in plays <input type="checkbox"/> Read novels and stories <input type="checkbox"/> Create with a computer <input type="checkbox"/> Create a video <input type="checkbox"/> Write poems or stories	<input type="checkbox"/> Find ways to make money <input type="checkbox"/> Complete detailed work <input type="checkbox"/> Be a leader in a group <input type="checkbox"/> Organize special events <input type="checkbox"/> Learn new ways to use a computer <input type="checkbox"/> Start your own business <input type="checkbox"/> Design advertisements <input type="checkbox"/> Work with numbers and data	<input type="checkbox"/> Help other people <input type="checkbox"/> Help people solve problems <input type="checkbox"/> Teach others <input type="checkbox"/> Work with a variety of people <input type="checkbox"/> Help people improve their appearance <input type="checkbox"/> Complete volunteer work <input type="checkbox"/> Work with young people <input type="checkbox"/> Help people who are sick	<input type="checkbox"/> Solve technical problems <input type="checkbox"/> Take things apart and put them back together <input type="checkbox"/> Complete science experiments <input type="checkbox"/> Solve a puzzle <input type="checkbox"/> Use tools <input type="checkbox"/> Play chess <input type="checkbox"/> Build models <input type="checkbox"/> Work outside
Are you able to...?	<input type="checkbox"/> Express yourself clearly <input type="checkbox"/> Perform in a group <input type="checkbox"/> Play a musical instrument <input type="checkbox"/> Draw, paint, or create with clay <input type="checkbox"/> Sing or dance <input type="checkbox"/> Write interesting stories <input type="checkbox"/> Design a web page <input type="checkbox"/> Communicate well with people	<input type="checkbox"/> Follow instructions <input type="checkbox"/> Organize and manage your time <input type="checkbox"/> Manage money <input type="checkbox"/> Pay attention to details <input type="checkbox"/> Work well with numbers <input type="checkbox"/> Lead others <input type="checkbox"/> Plan an activity for a group <input type="checkbox"/> Convince others that your idea is right	<input type="checkbox"/> Make friends easily <input type="checkbox"/> Express yourself clearly <input type="checkbox"/> Make wise decisions <input type="checkbox"/> Work cooperatively with others <input type="checkbox"/> Listen to other people's concerns <input type="checkbox"/> Help others learn <input type="checkbox"/> Help others have fun <input type="checkbox"/> Help someone who is angry	<input type="checkbox"/> Use a microscope <input type="checkbox"/> Repair a bicycle <input type="checkbox"/> Perform well in science <input type="checkbox"/> Use a diagram to build something <input type="checkbox"/> Measure things accurately <input type="checkbox"/> Figure out how something works <input type="checkbox"/> Perform well in math <input type="checkbox"/> Fix electrical things
Total checks 	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Count all the checks (✓) in each cluster and mark them at the bottom of the column. The cluster with the most checks is the one that seems to best match your interests/abilities. This may be the cluster you wish to explore in high school.

Highest interest cluster = _____

Second highest interest cluster = _____



How many years of education beyond high school will you need?

Selected sample careers are listed for each pathway on the following pages. These have been organized by the years of training required beyond high school. When choosing a potential career, consider your interest and aptitude, as well as the number of years of education needed. To access the Interest Inventory, visit the *Student Education Planning Guide Self Assessment* at www.ccps.org. For salary and other information regarding specific careers, visit www.careercruising.com and/or www.bls.gov/ooh/.

Please note that some occupations may require more or fewer years of education. The current designations are meant as a guide.



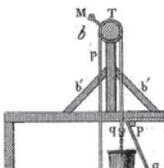
Occupations requiring 2 or fewer years of education after high school



Occupations requiring 4 years of education after high school



Occupations requiring more than 4 years of education after high school



••••• ARTS & COMMUNICATIONS •••••

ARTS & COMMUNICATIONS

DIGITAL ARTS

- Court Reporter
- Digital Imaging Specialist
- Film/Videographer
- Illustrator
- Photographer
- Producer
- Technician
- Video Camera Operator
- Web Designer
- 3D Modeler
- Animation Artist
- Audio/Video Specialist
- Computer Animator
- Desktop Publisher
- Editor
- Game Designer
- Graphic Designer
- Multimedia Artist
- Production Manager
- Program Manager
- Programmer
- Screenwriter
- Video Designer/Editor
- Graphics Design CEO**
- Researcher**
- Software Engineer**

LITERARY ARTS

- Advertiser
- Agent
- Community Relations Coordinator
- Web Designer
- Advertising Copywriter
- Advertising Manager
- Author
- Broadcast News Analyst
- Business Manager/Agent
- Grant Writer
- Journalist
- Novelist
- Playwright
- Poet
- Public Information Officer
- Public Relations Specialist
- Publicist
- Publisher
- Radio Announcer
- Reporter
- Screenwriter
- Speech Writer
- Technical Writer
- Television Announcer
- Advertising Firm CEO
- Editor
- Historian
- Proofreader
- Public Relations Department Manager
- Researcher

PERFORMING ARTS

- Announcer
- Booking Agent
- Costume Designer
- Disc Jockey
- Film and Television Crew
- Light Designer
- Magician
- Make-up Artist
- Model
- Producer
- Set Designer/Builder
- Stunt Person
- Actor
- Art/Drama Teacher
- Business Manager/Agent
- Casting Director
- Dance/Film Critic
- Dance Teacher/Educator
- Dancer
- Film Director
- Music Teacher
- Musician/Singer/Stage and Theater Manager
- Playwright
- Professional Athlete
- Artistic Director
- Choreographer
- Composer
- Conductor
- Music Arranger
- Sound Engineer
- Technical Director

VISUAL COMMUNICATIONS

- Cartoonist
- Craftsperson
- Exhibition Installer
- Fashion Artist
- Illustrator
- Interior Designer
- Photographer
- Picture Framer
- Potter
- Sketch Artist
- Advertiser
- Animator
- Art Teacher
- Artist/Commercial Artist
- Arts & Crafts Recreation Director
- Audio/Video Technician
- Event Coordinator
- Film/Videographer
- Gallery/Museum Manager
- Graphic Designer
- Interior Designer
- Museum Director
- Painter
- Photojournalist
- Sculptor
- Special Effects Creator
- Textile Designer
- Art Historian
- Medical Illustrator
- Museum Curator

Cluster ARTS & COMMUNICATIONS		Pathway DIGITAL ARTS				
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14	
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Arts & Humanities CC <u>Associate of Applied Science/ Visual Communications</u>	
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>		
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics					
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science					
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)				
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)					
Fine Arts (1)	Any Fine Arts Credit					
Pathway requirements = 6 credits	Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	2D Graphic Design I 2D Graphic Design II CADD Technology I CADD Technology II Communicating Through the Arts	Microsoft Professional I Music Keyboard I Music Keyboard II Photography I Photography II		
	World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
			Advanced Tech (any)	Advanced Tech (any)		
				Career Development Seminar, Career Research & Development, and Work-Based Learning Experience		
			Interactive Media Productions I & II			
Pathway Options (2)	AP Art History AP Biology AP Calculus AB, BC AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP Statistics AP Studio Art AP US History Anatomy & Physiology Chemistry* Drawing I, II Drawing/Painting I, II	Entrepreneurship ESOL I ESOL II ESOL III Foundations of Art Honors Drama I, II Media Publications Music Theory I, II* Physics* Principles of Business Admin & Management Principles of Physics II Program Developer Psychology*	Research Seminar SAT Review Sculpture & Ceramics I, II Speech/Discussion & Debate The Art of Expression I, II Theatre Theatre Design Trade Experience World Language I-V* World Mythology Yearbook <u>3D Modeling & Animation</u> <u>Acting for Video Production</u>	Basic Photography ** <u>Design & Presentation **</u> <u>Digital Illustration **</u> <u>Digital Imaging I, II**</u> <u>Digital Imaging III</u> <u>Digital Photography **</u> <u>Game Design I</u> <u>Intro to Movie Making **</u> <u>Multimedia Production I</u> <u>Photography I **</u> <u>Principles of Marketing</u> <u>Public Speaking</u> <u>Scriptwriting</u> <u>Video Production I **</u>		

ARTS & COMMUNICATIONS: DIGITAL ARTS

Indicates CTE Completer

* Includes the Honors/AP level course

Underline = Cecil College

**Foundation course if recommended by college representative.

ARTS & COMMUNICATIONS: LITERARY ARTS

Cluster		Pathway			
ARTS & COMMUNICATIONS		LITERARY ARTS			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Arts & Humanities College of Journalism CC <u>Associate of Arts/</u> <u>General Studies</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science			
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Communicating Through the Arts Media Publications Mythology Research Seminar	The Art of Expression I The Art of Expression II Theatre Yearbook		
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		
	Career Development Seminar, Career Research & Development, and Work-Based Learning Experience				
Pathway Options (2)	2D & Graphic Design I, II AP Calculus AB, BC AP Human Geography AP Lang & Comp AP Lit & Comp AP Statistics AP US History Chemistry * Entrepreneurship ESOL I ESOL II ESOL III	History of American Music Honors Drama Humanities Humanities A, B Intro to Bus/Fin/Mkting Microsoft Professional I Photography I, II Physics * Principles of Business Admin & Management Psychology*	SAT Review Shakespeare Speech/Discussion & Debate Theatre Design World Language I-V * World Mythology <u>Composition & Literature</u> <u>Intro to Movie Making</u> <u>Intro to Philosophy</u> <u>Scriptwriting</u> <u>Technical Writing</u>		

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

ARTS & COMMUNICATIONS: PERFORMING ARTS

Cluster ARTS & COMMUNICATIONS		Pathway PERFORMING ARTS			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Arts & Humanities CC <u>Associate of Arts/</u> <u>Performing Arts</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: STEM Sequence:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science			
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Adv Choral Ensemble Band Band Front Chorus Comm. Through the Arts Concert Choir	G/T Dance Guitar I Guitar II Honors Drama I Honors Drama II Intro to Dance	Jazz Ensemble Music Keyboard I Music Keyboard II String Orchestra Theatre	
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		Career Development Seminar, Career Research & Development, and Work-Based Learning Experience
Pathway Options (2)	Aerobic Conditioning AP Biology AP Calculus AB, BC AP Human Geography AP Lang & Comp AP Lit & Comp AP Statistics AP US History Anatomy & Physiology CADD Tech I Chemistry * Construction/Manuf Tech	ESOL I ESOL II ESOL III Fitness Walking Foundations of Art History of American Music Humanities Humanities A, B Lifetime Activities Microsoft Professional I Music Theory I, II* Physics *	Principles of Business Admin & Management Psychology* Research Seminar SAT Review Shakespeare Speech/Discussion & Debate Strength & Conditioning The Art of Expression I, II Theatre Design World Language I-V * World Mythology	<u>Acting for Video Production</u> <u>Acting Fundamentals</u> <u>Interpersonal Communications</u> <u>Intro to Movie Making</u> <u>Intro to Sociology</u> <u>Modern Dance Fundamentals</u> <u>Public Speaking</u> <u>Theatre Live</u> <u>Video Production I, II</u>	

Pathway requirements = 6 credits

Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

ARTS & COMMUNICATIONS: VISUAL COMMUNICATIONS

Cluster		Pathway			
ARTS & COMMUNICATIONS		VISUAL COMMUNICATIONS			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Arts & Humanities <u>CC</u> Associate of Arts/ Arts Option
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geography, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: Environmental Science*, Biology* Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, or AP Environmental Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Foundations of Art or Any Level I Art Course				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Communicating Through the Arts Any Level I, II, or Studio Art Course AP Studio Art (2D Design, 3D Design, or Drawing) It is recommended that a student pursuing a 4-year college degree take an AP Studio Art.			
World Language (2) AND/OR Adv Tech (2) AND/OR CTE	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (Any)	Advanced Tech (Any)	Career Development Seminar, Career Research & Development, and Work-Based Learning Experience	
Pathway Options (2)	Anatomy & Physiology AP Biology AP Calculus AB, BC AP Computer Science AP English Lang & Comp AP English Lit & Comp AP Human Geography AP Statistics AP US History Art History CADD Tech I, II	Chemistry * Creative Crafts Entrepreneurship ESOL I ESOL II ESOL III Humanities Humanities A, B Intro to Engineering Design Microsoft Professional I Physics *	Principles of Business Admin & Management Principles of Physics II Program Developer Psychology * Research Seminar SAT Review Theatre Theatre Design Trade Experience World Language I-V *	World Mythology Yearbook <u>Basic Photography</u> <u>Beginning Ceramics</u> <u>Digital Imaging I, II, III</u> <u>Drawing I</u> <u>Fundamentals of Design</u> <u>Intro to Sociology</u> <u>Painting I</u> <u>Photography I</u> <u>Sculpture</u>	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

BUSINESS, FINANCE, & MARKETING

••••• BUSINESS, FINANCE, & MARKETING •••••

BUSINESS MANAGEMENT

- Administrative Assistant
- Buyer
- Customer Service Representative
- Data Entry Clerk
- Dispatcher
- Insurance Salesperson
- Office Manager
- Receptionist
- Small Business Manager
- Advertising & Promotion Manager
- Benefits Manager
- Caterer
- Collections Officer
- Entrepreneur
- Event Coordinator
- Logistics Manager
- Marketing Director
- Personnel Recruiter
- Realtor/Real Estate Manager
- Systems Analyst
- Career Coach**
- Employee Assistance Plan Manager**
- Human Resources Manager**

FINANCE

- Accounts Clerk
- Bank Teller
- Billing Clerk
- Bookkeeper
- Cashier
- Collector
- Credit Analyst
- Insurance Agent
- Loan Processor
- Accountant
- Appraiser
- Auditor
- Budget Analyst
- Claims Adjuster & Examiner
- Cost Estimator
- Financial Analyst
- Insurance Underwriter
- Investment Banker
- Loan Officer
- Personal/Investment Advisor
- Purchasing
- Risk Analyst
- Stockbroker
- Tax Analyst
- Tax Preparer
- Certified Public Accountant
- Chief Financial Officer
- Comptroller
- Credit Counselor
- Economist
- Financial Advisor
- Financial Manager
- Mortgage Broker
- Statistician

MARKETING

- Account Representative
- Advertising Coordinator
- Advertising Sales Agent
- Antique Dealer
- Auctioneer
- Community Relations Coordinator
- Customer Service Representative
- Public Relations Assistant
- Sales Representative
- Telephone Operator
- Visual Display Designer
- Advertising & Promotion Manager
- Fashion Retailer
- Market Research Analyst
- Marketing Department Manager
- Media Coordinator/Buyer
- Merchandise Manager
- Public Relations Specialist
- Sports Marketer
- Advertising Firm CEO**
- E-Business Consultant**
- Fundraiser**
- Importer/Exporter**
- Marketing Manager**

BUSINESS, FINANCE, & MARKETING: BUSINESS MANAGEMENT

Cluster BUSINESS, FINANCE, & MARKETING		Pathway BUSINESS MANAGEMENT			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP Robert H. Smith School of Business CC <u>Associate of Arts/ Business Administration</u> <u>Associate of Applied Science/ Business & Commerce Technology</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Cosmetology I Intro to Business, Finance, & Marketing	Principles of Business Administration & Management Principles of Accounting & Finance		
World Language (2) AND/OR Adv. Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
	Advanced Tech (any)		Advanced Tech (any)		
			American Culinary Federation I & II		
			Cosmetology I & II		
			Becoming a Food Service Professional I & II and Practical Experience as a Food Service Professional		
			Business Education Internship		
			Career Development Seminar, Career Research & Development, and Work-Based Learning Experience		
			Introduction to Marketing & Advanced Marketing Oracle I & II		
Pathway Options (2)	2D & Graphic Design I, II AP Calculus AB, BC AP Computer Science AP English Lang & Comp AP English Lit & Comp AP Human Geography AP US Govt & Politics AP US History Chemistry*	Construction Manuf Tech ESOL I ESOL II ESOL III Intro to Design & Presentation Media Publications Photography I, II Physics* Principles of Physics II	Program Developer Psychology* Research Seminar SAT Review Speech/Discussion & Debate Statistics* Trade Experience World Language I-V* Yearbook	<u>Economics-Macro</u> <u>Economics-Micro</u> <u>Interpersonal Communications</u> <u>Principles of Management</u> <u>Principles of Marketing</u> <u>Public Speaking</u> <u>Technical Writing</u>	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

Cluster BUSINESS, FINANCE, & MARKETING				Pathway FINANCE		
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14	
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP Robert H. Smith School of Business CC <u>Associate of Applied Science/ Business & Commerce Technology</u>	
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>		
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics					
Science (3)	Science Options:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)				
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)					
Fine Arts (1)	Any Fine Arts Credit					
Pathway requirements = 6 credits	Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Intro to Business, Finance, & Marketing Principles of Business Administration & Management Principles of Accounting & Finance			
	World Language (2) AND/OR Adv. Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.) Advanced Tech (any) Advanced Tech (any)				
		Business Education Internship				
		Career Development Seminar, Career Research & Development, and Work-Based Learning Experience.				
		Introduction to Marketing & Advanced Marketing				
		Oracle I & II				
Pathway Options (2)	2D Graphic I, II AP Calculus AB, BC AP Computer Science AP English Lang & Comp AP English Lit & Comp AP Human Geography AP US Govt & Politics AP US History Chemistry*		ESOL I ESOL II ESOL III Intro to Design & Presentation Physics* Principles of Physics I, II Program Developer Psychology* Research Seminar		SAT Review Speech/Discussion & Debate Statistics* World Language I-V* Yearbook <u>Economics-Macro</u> <u>Economics-Micro</u> <u>Interpersonal Communications</u>	

BUSINESS, FINANCE, & MARKETING: FINANCE

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

BUSINESS, FINANCE, & MARKETING: MARKETING

Cluster BUSINESS, FINANCE, & MARKETING					Pathway MARKETING																
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14																
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP Robert H. Smith School of Business <u>CC</u> <u>Associate of Applied Science/ Business & Commerce Technology</u>																
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>																	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics																				
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science																				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)																			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)																				
Fine Arts (1)	Any Fine Arts Credit																				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Intro to Business, Finance, & Marketing Principles of Business Administration & Management Principles of Accounting & Finance																			
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Advanced Tech (any)</td> <td style="width: 33%; text-align: center;">Advanced Tech (any)</td> <td colspan="2"></td> </tr> <tr> <td colspan="2" style="text-align: center;">Career Development Seminar, Career Research & Development, and Work-Based Learning Experience.</td> <td colspan="2"></td> </tr> <tr> <td colspan="4" style="text-align: center;">Oracle I & II</td> </tr> <tr> <td colspan="4" style="text-align: center;">Introduction to Marketing & Advanced Marketing</td> </tr> </table>					Advanced Tech (any)	Advanced Tech (any)			Career Development Seminar, Career Research & Development, and Work-Based Learning Experience.				Oracle I & II				Introduction to Marketing & Advanced Marketing			
Advanced Tech (any)	Advanced Tech (any)																				
Career Development Seminar, Career Research & Development, and Work-Based Learning Experience.																					
Oracle I & II																					
Introduction to Marketing & Advanced Marketing																					
Pathway Options (2)	2D & Graphic Design I, II AP Calculus AB, BC AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP Studio Art AP US Govt & Politics AP US History CADD Tech I, II	Chemistry * Drawing I, II Drawing/Painting I, II ESOL I ESOL II ESOL III Intro to Design & Presentation Media Publications Photography I, II Physics *	Principles of Physics II Program Developer Psychology* Research Seminar SAT Review Speech/Discussion & Debate Statistics* Theatre World Language I-V * Yearbook	Economics-Macro Economics-Micro Interpersonal Communications Oracle III Oracle IV Principles of Management Principles of Marketing Public Speaking Technical Writing																	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

HEALTH & HUMAN SERVICES

EDUCATION

- Child Care Worker
- Coach
- Home Day Care Provider
- Humanitarian Aid Worker
- Martial Arts Instructor
- Motivation Speaker
- Nanny
- Paraprofessional
- Substitute Teacher
- Academic Advisor*
- Addictions Counselor*
- Child & Youth Worker*
- Library Technician*
- Performance Consultant*
- Placement Specialist*
- Registrar*
- Teacher*
- Admissions Counselor**
- Assistant Principal**
- Career Counselor**
- College Administrator**
- College Professor**
- Corporate Trainer**
- English as a Second Language Specialist**
- Financial Aid Advisor**
- Marriage & Family Counselor**
- Media Specialist**
- Principal**
- Psychologist**
- Reading/Speech Specialist**
- School Administrator**
- School Counselor**
- Speech Pathologist**

GOVERNMENT/ PUBLIC SERVICES

- Bailiff
- Court Clerk
- Dispatcher
- Hunting/Fishing Guide
- Law Enforcement Officer
- Legal Secretary
- Lobbyist
- Military/Armed Services Personnel
- Paralegal
- Politician
- Postal Worker
- Private Detective
- Air Marshal*
- Child Support Worker*
- Customs Officer*
- Emergency Management Specialist*
- Employment Counselor*
- Fish/Game Warden*
- Forensic Scientist*
- Government Official*
- Investigator*
- Language Interpreter*
- Legal Secretary*
- Mediator*
- Park Ranger*
- Parks & Recreation Director*
- Probation/Corrections Officer*
- Clergy**
- Coroner**
- Crime Scene Investigator**
- Explosive Specialist**
- Fire Marshal/Investigator**
- Judge**
- Lawyer**
- Social Worker**

HEALTH SERVICES/ CONSUMER SERVICES

- Cosmetologist
- Dental Hygienist
- Emergency Medical Technician/Paramedic
- Home Health Aide
- Licensed Practical Nurse
- Massage Therapist
- Medical Lab Technician
- Optician
- Pharmacy Technician
- Physical Therapy Assistant
- Radiology Technician
- Respiratory Technician
- Travel Agent
- Athletic Trainer*
- Chef*
- Dietitian*
- Medical/Nursing Instructor*
- Medical Technician*
- Mortician*
- Occupational Therapist*
- Personal Trainer*
- Physical Therapist*
- Registered Nurse*
- Abuse/Crisis Counselor**
- Anesthesiologist**
- Chiropractor**
- Dentist**
- Hospital Administrator**
- Nursing Home Administrator**
- Nurse Practitioner**
- Nutritionist**
- Pharmacist**
- Physician**
- Physician's Assistant**
- Psychiatrist**
- Speech Pathologist**
- Veterinarian**

••••• HEALTH & HUMAN SERVICES •••••

HEALTH & HUMAN SERVICES: EDUCATION

Cluster HEALTH & HUMAN SERVICES		Pathway EDUCATION			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Education School of Public Health Undergraduate Studies CC <u>Associate of Arts/ Teacher Education Transfer</u> <u>Associate of Applied Science/Early Child- hood Education</u> <u>Associate of Arts in Teaching/Elementary</u> <u>Associate of Arts in Teaching/Secondary</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Honors Biology, Honors Chemistry, Honors Physics, AP Biology, Sequence: AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science			
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway requirements = 6 credits	Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	AP Lang & Comp AP Lit & Comp AP Psychology AP Statistics Human Growth & Dev Intro to Public Service	Psychology Speech/Discussion & Debate Statistics World Language III, IV	
	World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)			
			Advanced Tech (any)	Advanced Tech (any)	
				Career Development Seminar, Career Research & Development, and Work-Based Learning Experience	
Pathway Options (2)	Aerobic Conditioning Anatomy & Physiology AP Biology AP Calculus AB, BC AP Computer Science AP Human Geography AP Studio Art AP US Govt & Politics AP US History Chemistry *	Contemporary Health Issues Drawing I, II ESOL I ESOL II ESOL III Fitness Walking Intro to Design & Presentation Lifetime Activities Media Publications Microsoft Professional I	Physics * Principles of Business Admin & Management Research Seminar SAT Review Strength & Conditioning The Art of Expression I, II Theatre World Language I-V * World Mythology	Yearbook <u>Human Growth & Development</u> <u>Interpersonal Communications</u> <u>Intro to Education</u> <u>Intro to Psychology</u> <u>Intro to Sociology</u> <u>Public Speaking</u> <u>Technical Writing</u>	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

HEALTH & HUMAN SERVICES: GOVERNMENT /PUBLIC SERVICES

Cluster HEALTH & HUMAN SERVICES		Pathway GOVERNMENT/PUBLIC SERVICES				
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14	
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Behavioral & Social Sciences School of Architecture, Planning, & Preservation Undergraduate Studies A. James Clark School of Engineering <u>CC</u> <u>Associate of Applied Science/Law Enforcement</u> <u>Associate of Arts/General Studies</u> <u>Associate of Applied Science in Emergency Medical Technician</u>	
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology</u> or <u>Intro to Sociology</u>		
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics					
Science (3)	Science Options:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)				
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)					
Fine Arts (1)	Any Fine Arts Credit					
Pathway requirements = 6 credits	Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	AP Lang & Comp AP Lit & Comp AP Psychology AP US Govt & Politics AP US History	Intro to Public Service Psychology Speech/Discussion & Debate World Language III, IV		
	World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
			Advanced Tech (any)	Advanced Tech (any)		
					Fire Science/EMS I & II	
					Homeland Security & Emergency Preparedness/Criminal Justice/Law Enforcement	
				Career Development Seminar, Career Research & Development, and Work-Based Learning Experience		
Pathway Options (2)	Aerobic Conditioning Anatomy & Physiology AP Biology AP Calculus AB, BC AP Human Geography CADD Tech I, II Chemistry * Construction/Manuf Tech	Energy/Power Environmental Science* ESOL I ESOL II ESOL III Fitness Walking Lifetime Activities Media Publications Microsoft Professional I	Physics * Principles of Business Admin & Management Principles of Physics II Research Seminar SAT Review Statistics* Strength & Conditioning	The Art of Expression I, II Trade Experience World Language I-V * World Mythology <u>Criminal Law Procedures-MD</u> <u>Interpersonal Communications</u> <u>Intro to Law Enforcement</u> <u>Intro to Psychology</u>		

■ Indicates CTE Completer

Underline = Cecil College

*Includes the Honors/AP level course

HEALTH & HUMAN SERVICES: HEALTH SERVICES/CONSUMER SERVICES

Cluster		Pathway			
HEALTH & HUMAN SERVICES		HEALTH SERVICES/CONSUMER SERVICES			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP School of Public Health Law & Health Professions <u>CC</u> Associate of Applied Science/Registered Nurse Associate of Applied Science/Emergency Medical Technician Physical Therapy Assistant
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Applied Science/Cosmetology, Anatomy & Physiology, or Zoology STEM Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Anatomy & Physiology AP Biology AP Psychology AP Statistics Cosmetology I	Human Growth & Development Intro to Public Service Prin of Biomedical Science Psychology Statistics		
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		
				AHP - Cert Nursing Assistant/GNA I & II AHP - Cert Clinical Medical Assistant I & II	
				Cosmetology I & II	
				American Culinary Federation I & II	
				Fire Science/EMS I & II	
		PLTW Biomedical Science I & II (Principles of Biomedical Sciences, Human Body Systems, Medical Intervention, Honors Biomedical Innovations)			
		Becoming a Food Service Professional I, Becoming a Food Service Professional II, and Practical Experience as a Food Service Professional			
Pathway Options (2)	Aerobic Conditioning AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP US Govt & Politics AP US History Calculus* Chemistry*	Contemporary Health Issues Environmental Science* ESOL I ESOL II ESOL III Fitness Walking	Health Care Internship Lifetime Awareness Microsoft Professional I Physics* Principles of Business Admin & Management Research Seminar SAT Review Speech/Discussion & Debate	Strength & Conditioning Theatre Trade Experience World Language I-V* <u>Human Growth & Development</u> <u>Interpersonal Communications</u> <u>Intro to Sociology</u>	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

SCIENCE, ENGINEERING, & TECHNOLOGY

••••• SCIENCE, ENGINEERING, & TECHNOLOGY •••••

CONSTRUCTION, MANUFACTURING, SCIENCE, & ENGINEERING

- Aircraft Mechanic
- Appliance Technician
- Auto Technician
- Building Inspector
- CADD Technician
- Chemical Technician
- Contractor
- Draftsman
- Electrician
- Electronics Technician
- Gunsmith
- Heavy Equipment/Fork Lift Operator
- Mechanic
- Plumbing and HVAC Technician
- Robotics Technician
- Welder
- Architect*
- Boiler Maker*
- Carpenter*
- Civil Engineer*
- Construction Manager*
- Electrical Engineer*
- Industrial Engineer*
- Product/System Engineer*
- Safety Engineer*
- Systems Engineer*
- Aerospace Engineer**
- Biomedical Engineer**
- Chemical Engineer**
- Chemist**
- Civil Engineer**
- Manufacturing Director**
- Mechanical Engineer**
- Nuclear Engineer**
- Physicist**

ENVIRONMENTAL, AGRICULTURAL, & NATURAL RESOURCES

- Butcher
- Florist
- Forester
- Groundskeeper
- Horse Trainer
- Landscaper
- Air Quality Manager*
- Biologist*
- Botanist*
- Conservation Scientist*
- Environmental Engineer*
- Farm Manager*
- Geologist*
- Hazardous Materials Manager*
- Landscape Designer & Architect*
- Marine Biologist*
- Meteorologist*
- Microbiologist*
- Oceanographer*
- Pest Control Specialist*
- Safety Inspector*
- Urban Planner*
- Water/Waste Water Treatment Operator*
- Zoologist*
- Geneticist**
- Horticulturalist**
- State Health Official**

INFORMATION TECHNOLOGY

- Business Machines Operator
- Communications Technician
- Computer Technician
- Data Entry Operator
- Electrical Technician
- Support Technician
- Web Designer
- Webmaster
- Computer Network Specialist*
- Computer Programmer*
- Computer Scientist*
- Electronics Engineer*
- Multimedia Developer*
- Security Specialist*
- Software Applications Specialist*
- Systems Analyst*
- Video Game Developer*
- Computer Engineer**
- Information Technology Project Manager**
- Network Engineer**
- Security Analyst**
- Software Engineer**
- Systems Analyst**
- Systems Architect**

CONSTRUCTION, MANUFACTURING, SCIENCE, & ENGINEERING

SCIENCE, ENGINEERING, & TECHNOLOGY

		Cluster			Pathway
		SCIENCE, ENGINEERING, & TECHNOLOGY			CONSTRUCTION, MANUFACTURING, SCIENCE, & ENGINEERING
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP School of Architecture, Planning, & Preservation A. James Clark School of Engineering <u>CC</u> Associate of Applied Science/Computer Information Systems Associate of Science <u>Transfer Options:</u> Aerospace Engineering Chemical Engineering Civil Engineering Electrical Engineering Mechanical Engineering
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: STEM Sequence:	Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science			
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	CADD Technology I CADD Technology II Intro to Engineering Design Intro to Science, Engineering, & Technology Principles of Engineering			
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		
		School of Technology Programs **			
		PLTW Pre-engineering (Principles of Engineering, Civil Engineering & Architecture, Digital Electronics, Honors Engineering Design & Development)			
		Career Development Seminar, Career Research & Development, and Work-Based Learning Experience.			
Pathway Options (2)	2D & Graphic Design I, II AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP US Govt & Politics AP US History Applied Trades Academy I Calculus* Chemistry* Construction/Manufacturing Tech Drawing I, II	Energy & Power/Transport Tech Entrepreneurship Environmental Science* ESOL I ESOL II ESOL III Fitness Walking Microsoft Professional I Photography I Physics* Principles of Business Admin & Management Program Developer	Research Seminar Robotics SAT Review Speech/Discussion & Debate Statistics* Strength & Conditioning Trade Experience World Language I-V * <u>Interpersonal Communications</u> <u>Public Speaking</u> <u>Technical Writing</u>	Auto Tech I & II Construction Design & Management I & II Construction Trades I & II Electrical Trades I & II Heavy Industrial Maintenance I & II HVAC/Plumbing I & II Welding & Metals Tech I & II	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

Cluster		Pathway			
SCIENCE, ENGINEERING, & TECHNOLOGY		ENVIRONMENTAL, AGRICULTURAL, & NATURAL RESOURCES			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	Examples: UMCP College of Agriculture & Natural Resources Combined Programs College of Life Sciences CC <u>Associate of Science/ Biology</u> <u>Associate of Science/ Environmental Science</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geography, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Applied Science/Natural Resources, Applied Science/CASE, Anatomy & Physiology, Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Environmental Science AP Environmental Science Intro to Science, Engineering, & Technology Principles of Engineering Zoology			
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		
		CASE I & II			
		Natural Resources I & II			
	Career Development Seminar, Career Research & Development, and Work-Based Learning Experience				
Pathway Options (2)	2D & Graphic Design I, II Aerobic Conditioning AP Biology AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP US Govt & Politics AP US History CADD Tech I, II Calculus*	Chemistry* Construction/Manuf Tech Drawing I, II Earth Science* Energy & Power/Transport Tech ESOL I ESOL II ESOL III Fitness Walking Human Body Systems Intro to Engineering Design	Lifetime Activities Microsoft Professional I Photography I Physics* Prin of Biomedical Science Principles of Business Admin & Management Program Developer Research Seminar Robotics SAT Review	Speech/Discussion & Debate Statistics* Strength & Conditioning Trade Experience World Language I-V* <u>Interpersonal Communications</u> <u>Intro to Sociology</u> <u>Public Speaking</u> <u>Technical Writing</u>	

SCIENCE, ENGINEERING, & TECHNOLOGY: ENVIRONMENTAL, AGRICULTURAL, & NATURAL RESOURCES

Pathway requirements = 6 credits

■ Indicates CTE Completer

*Includes the Honors/AP level course
-20-

Underline = Cecil College

SCIENCE, ENGINEERING, & TECHNOLOGY: INFORMATION TECHNOLOGY

Cluster		Pathway			
SCIENCE, ENGINEERING, & TECHNOLOGY		INFORMATION TECHNOLOGY			
Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14
English (4)	English 9 or Honors English 9	English 10, Hon English 10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp.	Examples: UMCP College of Computer, Mathematical, & Physical Sciences Robert H. Smith School of Business <u>CC</u> <u>Associate of Applied Science/Computer Information Systems</u>
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geo, AP Psychology, AP US Gov & Pol, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>	
Mathematics (4) one per year (Choose a Sequence)	Sequence 1: Pre-algebra, Algebra I, Geometry, Topics of Math Sequence 2: Algebra I, Geometry, Topics of Math, Algebra IIA Sequence 3: Algebra I, Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics Sequence 4: Geometry, Algebra II or Algebra IIA & Algebra IIB, Trig/Functions/Statistics, Pre-calculus, Statistics, Calculus Sequence 5: Honors Algebra II or Algebra II, Honors Trig/Functions/Statistics & Honors Pre-calculus, AP Calculus or AP Statistics				
Science (3)	Science Options: Environmental Science*, Biology*, Earth Science*, Principles of Physics I, Chemistry*, Physics*, Anatomy & Physiology, or Zoology STEM Sequence: Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science, or AP Computer Science				
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)			
Technology Education (1)	Foundations of Technology (1) or Intro to Engineering Design (1) or Foundations of Technology (.5) and Intro to Design & Presentation (.5)				
Fine Arts (1)	Any Fine Arts Credit				
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Microsoft Professional I Principles of Engineering Program Developer			
World Language (2) AND/OR Adv Tech (2) AND/OR CTE Completer (4)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)				
		Advanced Tech (any)	Advanced Tech (any)		
		IT Networking (CISCO) I & II			
		Career Development Seminar, Career Research & Development, and Work-Based Learning Experience			
Pathway Options (2)	2D & Graphic Design I, II AP Biology AP Computer Science AP Human Geography AP Lang & Comp AP Lit & Comp AP US History CADD Tech I, II Calculus* Chemistry*		ESOL I ESOL II ESOL III Intro to Engineering Design Photography I, II Physics* Principles of Business Admin & Management Research Seminar Robotics	SAT Review Statistics* Trade Experience World Language I-V* <u>Oracle III</u> <u>Oracle IV</u> <u>Technical Writing</u>	

■ Indicates CTE Completer

*Includes the Honors/AP level course

Underline = Cecil College

Cluster
SCIENCE, ENGINEERING, & TECHNOLOGY
 (This pathway is only open to students who meet specific requirements.)

Pathway
STEM

Graduation Requirements	GRADE 9	GRADE 10	GRADE 11	GRADE 12	YEARS 13 & 14	
English (4)	English 9 or Honors English 9	English 10, Hon English10, AP Lang & Comp, or AP Lit & Comp	English 11, Hon English 11, AP Lang & Comp, or AP Lit & Comp	English 12, Hon English 12, AP Lang & Comp, or AP Lit & Comp,	<p>Examples:</p> <p><u>CC</u> Associate of Science</p> <p><u>Transfer Options:</u> Aerospace Engineering Chemical Engineering Civil Engineering Electrical Engineering Mechanical Engineering</p>	
Social Studies (4) one per year	Government or Honors Government	World History or Honors World History	US History, Honors US History, or AP US History	Cont World Studies, AP Human Geography, AP Psychology, AP US Gov & Politics, AP US History, <u>Intro to Psychology,</u> or <u>Intro to Sociology</u>		
Mathematics (6-7) one per year	Honors Algebra II (recommended) Honors Geometry	Honors Trig/ Functions/ Statistics and Honors Pre-Calculus	AP Calculus AB	AP Calculus BC or AP Statistics or one from the following: <u>MAT 127 Statistics</u> <u>MAT 201 Calculus I</u> <u>MAT 202 Calculus II</u> <u>MAT 203 Multivariable Calculus</u>		
Science (5-7)	Honors Biology	Honors Chemistry (required) Honors Physics (optional)	Honors Physics, AP Chemistry, AP Biology, AP Physics, AP Environmental Science, or AP Computer Science	AP Biology, AP Chemistry, AP Physics, or AP Environmental Science, or from one of the following: <u>BIO 101/111 Gen Biology</u> <u>BIO 222/232 Genetics w/lab</u> <u>CHM 105 Gen Chem I</u> <u>CHM 106 Gen Chem II</u> <u>CHM 203 Organic Chem I</u> <u>CHM 204 Organic Chem II</u> <u>PHY 207 Gen Physics I w/lab</u> <u>PHY 208 Gen Physics II w/lab</u>		
Capstone Courses (1)			Honors Research and Design/ Capstone			
Physical Education (1) Health Education (1)	Personal Fitness (.5) Health Education I (.5)	Physical Education 10 (.5) Health Education II (.5)				
Technology Education (1)	Introduction to Engineering Design (1)					
Fine Arts (1)	Any Fine Arts Credit					
Pathway Required Courses (2)	These courses can be used as pathway required courses OR pathway options:	Any two (2) credits beyond the minimum requirements (Math - 4 and Science - 3 from above) will satisfy the pathway required course credits.				
World Language (2)	World Language (Two [2] sequential credits beyond grade 8 are required by most 4-year colleges.)					
Pathway Options (2)	2D & Graphic Design I, II Aerobic Conditioning AP Computer Science AP Lang & Comp AP Lit & Comp AP US History Civil Engineering & Architecture Construction/Manuf Tech Digital Electronics Drawing I, II Energy & Power/Transport Entrepreneurship	ESOL I ESOL II ESOL III Fitness Walking Hon Biomed Innovations Capstone Human Body Systems Lifetime Activities Medical Intervention Microsoft Professional I Oracle I Oracle II Principles of BioMed Science	Principles of Business Admin & Management Principles of Engineering Program Developer Research Seminar Robotics SAT Review Speech/Discussion & Debate Statistics Strength & Conditioning World Language I-V *	<u>CIS 261 Oracle II</u> <u>CIS 263 Oracle III</u> <u>CIS 264 Oracle IV</u> <u>DAP 109 Intro to Programming</u> <u>Interpersonal Communications</u> <u>Public Speaking</u> <u>Technical Writing</u>		

SCIENCE, ENGINEERING, & TECHNOLOGY:

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS (STEM) ACADEMY

Pathway requirements = 6 credits

*Includes the Honors/AP level course

GRADUATION REQUIREMENTS

CREDIT REQUIREMENTS

A minimum of 25 credits must be earned in grades 9 through 12 to receive a Maryland High School Diploma. Students must be enrolled at least four years beyond grade 8 unless a formal waiver is granted by the Superintendent of Schools.

CREDIT REQUIREMENTS

English.....	4
Mathematics	4
• 1 credit must be algebraic concepts	
• 1 credit must be geometric concepts	
• A student must take one math credit per year beyond grade 8.*	
Social Studies.....	4
• 1 Government	
• 1 World History	
• 1 US History or AP US History	
• 1 Contemporary World Studies or AP US Government or AP Human Geography or AP Psychology	
• A student must take one social studies credit per year beyond grade 8.*	
Science.....	3
• 1 credit must be in Biology	
Fine Arts	1
Physical Education	1
• .5 credit must be in Personal Fitness	
Health Education	1
Technology Education	1
Pathway Requirements	6
Pathway Required Courses (2)	
<i>Completion of the following:</i>	
- World Language (2)	
and/or	
- Advanced Technology (2)	
and/or	
- Career Technology Education Completer Program (4-10)	
Pathway Options	**
* A second math or social studies credit earned in the year may count as a pathway option.	
** Pathway requirements may vary according to program.	
Make-up credits, pending availability, must be earned through county-approved options.	

ASSESSMENT REQUIREMENTS

To meet the graduation requirement, students enrolled in the courses highlighted below must:

- **Government:** pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan;
- **Biology:** pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan;
- **Algebra I:** pass the course AND pass the PARCC test, the PARCC re-test, or the Bridge Plan;
- **English 10:** pass the course AND pass the PARCC test, the PARCC re-test, or the Bridge Plan.

To strengthen areas of weakness, **Appropriate Assistance** will be available to students who do not meet the assessment criteria. Modified High School Assessments (Mod-HSA) will be administered to a small number of identified students with specific disabilities and modified academic goals. Results of the High School Assessments are recorded on students' report cards and transcripts.

**Transfer student requirements may differ based upon first time 9th grade enrollment.*

For more information, visit www.mdk12.org.

SERVICE LEARNING REQUIREMENT

All students must complete the graduation requirement in service learning. The requirement will be met by successful completion of infused service learning units in grades 6 through 9, or a service learning course in grades 11 or 12. Transfer students entering grades 6, 7, 8, or 9 will be required to complete the subsequent units upon enrollment in the Cecil County Public Schools (e.g., a student who transferred into the Cecil County Public Schools in grade 7 would be required to complete the service learning units in grades 7, 8, and 9 to meet the graduation requirement).

Transfer students need to meet one of the following:

- proof of previous satisfactory service learning; or
- satisfactory completion of the service learning course; or
- satisfactory completion of an approved service learning project co-planned by the student and the building level Service Learning Coordinator.

WEIGHTED CLASSES & CLASS RANK

A weighted grade point average (GPA) is used in computing class rank to compensate for certain courses differing in their level of academic challenge.

Weighted courses are designated by 

HONORS/ADVANCED PLACEMENT COURSES

Honors and Advanced Placement courses challenge students to extend their learning through creativity and independence. Students are provided the opportunity to explore the curriculum in depth and work with their peers to pursue areas of interest. Students who take honors and Advanced Placement courses should demonstrate the capacity to work independently and in small groups, read complex texts, and persevere in understanding difficult concepts. When considering enrollment in these courses, students should seek advisement from their current teachers and school counselor. Additional weight may be applied to a student's GPA based on successful completion of the course requirements.

ONLINE COURSES

Various online courses may be available to students who meet specific criteria and obtain the approval of their principals. Students receive online instruction in a classroom setting with a teacher to provide assistance when necessary. **Only online courses approved by the Maryland State Department of Education and Cecil County Public Schools may be used to earn high school credit.** These courses allow students to access Advanced Placement (AP) courses, appropriate assistance opportunities, and repeat courses where credit was not earned. For further information, see your school counselor.

SUMMER HIGH SCHOOL

Summer high school is a four-week program for students who are enrolled in grades 9-12. This program offers review credit in a variety of courses including English, mathematics, science, and social studies. A list of regularly offered summer school courses is available through your school guidance office. If a course is not listed, it will be offered only if 10 or more students request it, and a teacher is available to teach it.

All students should plan their summer high school program through the guidance department at their home school. Full payment of tuition is required for all students at the time of registration. Enrollment information will be available from your school counselor in the spring regarding the schedule of course offerings and times.

TWILIGHT PROGRAM

The Twilight Program is an educational program designed to help students with behavioral and academic concerns. The primary focus of the program is to support students and provide opportunities for academic and behavioral growth and success.

MARYLAND HIGH SCHOOL CERTIFICATE

The goal of the certificate program is to use all available resources to ensure that students are able to enter the workplace and become responsible, productive citizens.

The Maryland High School Certificate is awarded to students with disabilities who cannot meet the requirements for a diploma. A student with a disability may be considered for the Maryland High School Certificate if he/she:

- meets the criteria for taking the Alternate Maryland Assessment (Alt-MSA); or
- is enrolled in an educational program for at least 4 years beyond grade 8 or its age equivalent, and is determined by an IEP team, with the agreement of the parents of the student, to have developed appropriate skills for the individual to enter the world of work, to act responsibly as a citizen, and to enjoy a fulfilling life in the world of work including, but not limited to: (a) gainful employment, (b) work activity centers, (c) sheltered workshops, and (d) supported employment ; or
- has been enrolled in an educational program for 4 years beyond grade 8 or its age equivalent and will have reached the age of 21 by the end of his/her current school year.

CREDIT FOR HIGH SCHOOL COURSES TAKEN DURING MIDDLE SCHOOL

High school credit will be granted for the following mathematics courses taken in middle school: Algebra I, Geometry, and Algebra II. The grade earned will not be used in the calculation of the high school grade point average nor will the credits earned count toward the high school mathematics requirements. Students must still complete one credit of mathematics per year in the high school.

High school credit will also be granted for the world language level I courses taken in middle school. The grade earned will not be used in the calculation of the high school grade point average. This world language credit will count toward one of the two sequential courses needed for the world language completer program. **Students planning to attend college should note that most colleges do not recognize high school credits earned in middle school. These students should complete at least two (2) sequential world language credits while in grades 9 through 12 in order to meet college admission requirements.**

The National Collegiate Athletic Association (NCAA) does not accept high school credits earned while in a middle school.

SUPPORT HALL

Support Hall is a class that provides students an opportunity to pursue credit recovery efforts or receive support for on-going academic efforts such as, but not limited to, independent study and appropriate assistance. Students in support hall receive on-going support from teachers, administrators, mentors, counselors, and other professionals.

CREDIT RECOVERY

Credit recovery is an opportunity for students to earn credit in a course previously failed without having to repeat the entire course.

GRADE RECOUP

Grade recoup is an attempt to help students pass the marking period by extending the marking period five (5) days to allow these students to improve the final marking period grade to passing, and in addition, will maintain athletic eligibility.

END-of-YEAR PROMOTION

Cecil County Public Schools requires the following minimum number of accumulated credits to advance from one grade to another at the end of each school year.

Grade 9 to 10 - 5 Credits (2nd year in high school)

(Two of the five credits must be in *core subjects.)

Grade 10 to 11 - 11 Credits (3rd year in high school)

(Five of the eleven credits must be *core subjects.)

Grade 11 to 12 - 18 Credits (4th year in high school)

(Nine of the eighteen credits must be in *core subjects.)

MID-YEAR PROMOTION

A student who has been retained may be promoted mid-year if that student has the potential to earn enough credits during the second semester to move ahead to the next grade level.

Repeat 9th Grader:

Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will have at least 11 credits. (Five of the eleven credits must be earned in *core subjects.)

Repeat 10th Grader:

Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will have at least 18 credits. (Nine of the eighteen credits must be earned in *core subjects.)

Repeat 11th Grader:

Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will meet all credit requirements for graduation.

* English, science, math, or social studies

THE HOUSE BUILDING PROJECT AT CCST

Students in the Construction Trades, HVAC/Plumbing, and Electrical Trades Programs at Cecil County School of Technology construct a residential house. The House Building Project gives students a practical learning experience in a new home construction setting. Students apply math, language/communication, and technical skills to successfully complete a residential house project. As a result, students are taught all aspects of house construction from blueprints through interior finishes and readiness for sale. For more information regarding CCST programs, visit:

<http://ccst.ccps.org/housepage.html>

ATHLETIC ELIGIBILITY

The Cecil County Interscholastic Athletics Program is an integral part of the educational process. The athletic program eligibility rules required for all students who wish to participate support the academic function of the Cecil County Public Schools by encouraging all students to reach their academic as well as athletic potential. Highlights of the policy are listed in this guide. To read the full policy please go to the Athletics page at www.ccps.org for the most up-to-date policy.

A student may not participate in more than one interscholastic sport per sport season. Students must be in school a full day as defined by the athletic attendance policy in order to participate in practice or a scheduled interscholastic event on that day. The principal may grant an exception to the full day for good cause for any student.

The annual Report Card Calendar designates dates and times for the electronic entry of grades and the issuance of report cards. A student who receives one (1) or more failing grade(s), as indicated on the report card, shall be ineligible to participate the school day following the issuance of the report card until grades are entered electronically the following marking period at the designated deadline. At the beginning of each school year all students who are entering the ninth grade for the first time shall be eligible for participation regardless of the grades received at the end of the previous school year. All students entering grades 10, 11, and 12 shall have the status of eligibility determined by the final grades received at the end of the previous year. Any student who receives one (1) or more failing grades (final grades) at the end of the previous year shall be ineligible for participation until grades are issued at the end of the first marking period of the following year. The status of eligibility will take effect the next school day following the deadline for electronic grade entry for report cards and interim progress reports. If a student participates in an approved or alternative education program and receives a passing grade in the same subject(s) failed the previous year, the status of eligibility will be reinstated. If a student participates in an approved credit recovery effort and receives a passing grade of P in the same subject(s) failed, eligibility will be restored the day after the passing grade is recorded. The passing grade for credit recovery can only be recorded at interim time or at the end of the marking period.

All students who become ineligible during the winter sports season may become eligible for the spring season when the third marking period interims are issued.

An incomplete can be given for work which is legitimately incomplete. This must be changed to an appropriate letter grade within a time period mutually agreeable with the student, parent, teacher, and principal. The application of an Incomplete grade shall be considered a non-grade until the grade is determined. If the grade of F is issued, the status of ineligibility will be applied and take effect the next school day. Students may regain eligibility by improving grades through the CCPS Grade Recoup program. A student may not have eligibility restored until the recouped grade has been entered by the school and verified by the athletic director. A student's athletic eligibility is regained when the grade recoup work has been entered by the teacher and verified by the athletic director.

College Athletic Eligibility

The National Collegiate Athletic Association (NCAA) has specific guidelines for high school student athletes who wish to be eligible to compete in college athletics. There are four basic criteria which include:

1. Graduation from high school with mathematics credits through Algebra II;
2. Minimum core grade point average;
3. Minimum ACT or SAT test score; and
4. Completion of 16 core courses.

Planning for college and college athletics should begin in grade nine in order to complete the core courses. Students should register with the NCAA clearinghouse by the end of their junior year. Check with your school counselor for information concerning the specifics of the above criteria. For more information on eligibility, visit: www.eligibilitycenter.org.

To register with NCAA Eligibility Center visit www.eligibilitycenter.org

CECIL COUNTY SCHOOL OF TECHNOLOGY

The following programs are currently offered at the Cecil County School of Technology (CCST). All programs are two semesters unless otherwise noted.

AHP - Cert Nursing Assistant/GNA I & II
 AHP - Cert Clinical Medical Assistant I & II
 American Culinary Federation - Professional Cooking
 Automotive Technology
 Construction Trades
 Cosmetology (3 semesters)
 Curriculum for Agricultural Science Education (CASE)
 Electrical Trades
 Fire Science/Emergency Medical Services
 Heavy Industrial Maintenance
 Homeland Security & Emergency Preparedness-
 Criminal Justice / Law Enforcement
 HVAC Technology/Plumbing
 Interactive Media Production - Simulation & Gaming
 IT Networking Academy (Cisco Academy)
 Natural Resources
 Project Lead The Way-Biomedical Sciences
 Teacher Academy of Maryland
 Welding & Metals Technology

These programs are evaluated on an ongoing basis to align the curriculum with current business and industry standards. Learning sites may vary according to program needs (e.g., Union Hospital, Cecil College, Edgewood Area of Aberdeen Proving Ground, Calvert Manor, Jenner's Pond). Prerequisites for these programs are upgraded according to business and industry recommendations. All students are required to sit for their program's industry recognized certification assessment. See course descriptions beginning on page 38 regarding local, state, and national licenses/certifications for each program.

There is a competitive application process for enrollment due to a limited number of spaces available for students per program. Students accepted into the Cecil County School of Technology will have done so either through the merit or lottery process. In programs where the number of applications exceeds the number of seats available, half of the seats will be based on merit - looking at their grades and attendance as well as a non-traditional gender basis of program choice; the other half of the seats will be filled through a lottery process.

The lottery process will be conducted in a public setting at an announced date and location using an electronic randomizer. All applicants will then be notified through their home school counselor.

Merit process based upon:

- All absences in the first three semesters of high school
 - 12 or fewer days = 4 points
 - 13-18 days = 3 points
 - 19-24 days = 2 points
 - 25-30 days = 1 point
 - 31 or more = 0 points
- Grade point average earned in the first three semesters of high school
 - A (3.75-4.00) = 8 points
 - A- (3.50-3.74) = 7 points
 - B+ (3.26-3.49) = 6 points
 - B (2.75-3.25) = 5 points
 - B- (2.50-2.74) = 4 points
 - C+ (2.26-2.49) = 3 points
 - C (1.75-2.25) = 2 points
 - C- (1.50-1.74) = 1 point
- Application to a program non-traditional to gender = 1 point

Licenses and Certifications Available Through CCST Programs

AHP - Cert Nursing Assistant/GNA I & II	Certified Nursing Assistant (CNA) Geriatric Nursing Assistant (GNA) First Aid/CPR/AED Certification
AHP - Cert Clinical Medical Assistant I & II	Certified Clinical Medical Assistant First Aid/CPR/AED Certification
American Culinary Federation - Professional Cooking	ServSafe ACT NOCTI (Written & Performance) First Aid/CPR/AED Certification
Automotive Technology	Air Conditioning Refrigerant & Recycling, NATEF, First Aid/CPR/AED Certification
Construction Trades	National Center for Construction Education & Research (NCCER) (Core: Intro to Craft Skills and Level I Carpentry), First Aid/CPR/AED Certification
Cosmetology	Maryland State Board of Cosmetologist License First Aid/CPR/AED Certification
Curriculum for Agricultural Science Education (CASE)	First Aid/CPR/AED Certification
Electrical Trades	NCCER (Core: Intro to Craft Skills and Level I Electrical), First Aid/CPR/AED Certification
Fire Science/Emergency Medical Services	EMT-B, Firefighter I & II, Aerial Operator, Fireground Operations, Firefighter Safety and Survival, Rescue Technician Extrication, Rescue Technician Operations, First Aid/CPR/AED Certification
Heavy Industrial Maintenance	NCCER (Core: Intro to Craft Skills and Level I Heavy Industrial Maintenance), First Aid/CPR/AED Certification
Homeland Security & Emergency Preparedness -Criminal Justice/Law Enforcement	First Aid/CPR/AED Certification
HVAC Technology/Plumbing	EPA Refrigerant Recovery Troubleshooting & Servicing Heat Pump Systems, Universal R-410-A Safety & Training, Compression Systems, System Diagnostic & Troubleshooting Procedures, Medium & High Efficiency Gas Furnaces, Basic Refrigeration and Charging Procedures, NCCER (Core: Intro to Craft Skills, Level I HVAC, and Level I Plumbing), First Aid/CPR/AED Certification
Interactive Media Production-Simulation & Gaming	Adobe Creative Suite Certification and/or program tools (e.g., XNA, C++) First Aid/CPR/AED Certification
IT Networking Academy (Cisco Academy)	Comp TIA A+ Certification First Aid/CPR/AED Certification
Natural Resources	Maryland Pesticide Applicator Certified Professional Horticulturist First Aid/CPR/AED Certification
Project Lead The Way-Biomedical Sciences	First Aid/CPR/AED Certification
Teacher Academy of Maryland	Para Pro First Aid/CPR/AED Certification
Welding & Metals Technology	NCCER (Core: Intro to Craft Skills) and Industrial Welding Level I First Aid/CPR/AED Certification

••• NEED-TO-KNOW INFORMATION •••

Planning for Your Future



The school guidance office has many resources to assist students with making post-secondary education and career choices. This includes admission requirements and information about employment opportunities immediately following high school graduation.

A financial aid guide which provides local, state, and national scholarship and financial aid resource information is also available through the school guidance office. This guide contains a listing of websites for further information about financial aid and scholarships.

See your school counselor to find out how you can prepare for tomorrow...today!

Career Planning Websites

www.bls.gov/ooh
www.careercruising.com
www.swnetwork.org

College Planning Websites

www.careercruising.com
www.collegeanswer.com
www.collegeboard.org
www.fafsa.ed.gov
www.fastweb.com
www.goodcall.com
www.mhec.state.md.us
www.petersons.com

College Application Process

The college application process is a comprehensive one. Colleges and universities consider the *whole* student in their admission decisions. Students entering college must have a solid academic record and a variety of extra-curricular experiences. According to the *National Association for College Admissions Counseling's (NACAC) State of College Admission Report*, the top factors in the admissions decision are:

1. High School transcript, which includes:
 - overall grades
 - difficulty of courses taken
 - grade point average (GPA)
2. SAT®/ACT® Scores
3. Other factors, including:
 - class rank
 - quality of essay or writing sample
 - teacher/counselor recommendations
 - student interview
 - work or extracurricular activities
 - clear interest in attending the institution

Students should seek information on the college application process from their school counselors.

Visit
Cecil County
Public Schools
Website
at

www.ccps.org

MINIMUM REQUIREMENTS FOR ADMISSION TO MOST POST-SECONDARY EDUCATIONAL PROGRAMS

UNIVERSITY SYSTEM OF MARYLAND (USM)

MINIMUM HIGH SCHOOL COURSE REQUIREMENTS FOR ADMISSION	
SUBJECT	CREDITS
English	4
Social Studies/History	3
Mathematics (must include Algebra I, Geometry, and Algebra II)	4
Biological & Physical Sciences	3*
World Language or Advanced Tech	2**
Academic Electives	6

* For students interested in science-oriented careers (such as medicine, engineering, veterinary medicine, physical therapy), four years of science are recommended in three different science areas with at least three lab experiences.

** The two world language credits must be in the same language. Each institution will determine whether advanced technology courses will be accepted in lieu of world language. Please contact the institution(s) of your choice for information.

University System of Maryland includes:

- Bowie State University
- Coppin State University
- Frostburg State University
- Salisbury University
- Towson University
- University of Baltimore
- University of Maryland, Baltimore
- University of Maryland, Baltimore County
- University of Maryland, College Park
- University of Maryland Center for Environmental Science
- University of Maryland Eastern Shore
- University of Maryland University College

Each USM institution has guidelines for evaluating applications of students who have not completed all the required courses for admission. In some cases, students who lack a required course are permitted to demonstrate

their competency in a given field as an alternative to completing a required high school course.

These courses, along with an acceptable standardized test score, represent the minimum high school requirements for application to the USM institutions previously listed. Individual campuses and programs also have additional requirements. Students should contact the admissions office to ask about these requirements.

For more information, visit www.usmd.edu.

FOUR-YEAR COLLEGES/UNIVERSITIES OUTSIDE THE STATE OF MARYLAND

Most four-year colleges/universities have the same minimum requirements as those of the USM. For information about the college of your choice, contact the college admissions office.

TWO-YEAR COLLEGES AND TECHNICAL COLLEGES

Most community and technical colleges welcome students with an “open door” philosophy. Skills assessments are usually required in the areas of English, math, and reading to assess students’ academic readiness for college-level coursework, or to strengthen these areas if necessary. Check with the individual college of your choice for more specific information.

TRANSFER INFORMATION

Credits earned at a community college will generally transfer to the University System of Maryland (USM). Contact the individual school for specific information on transfer policies.

••• NEED-TO-KNOW INFORMATION •••

SAT® Information

Students applying to college may need to take the SAT® exam and have their official score reports sent to the colleges of their choice. National test dates for the 2015-2016 SAT® are anticipated to be:

- October 1, 2016
- November 5, 2016
- December 3, 2016
- January 28, 2017
- March 11, 2017
- May 6, 2017
- June 3, 2017

The fee for the SAT Reasoning Test™ is approximately \$55. SAT Subject Test™ fees vary depending on the subject. Registration deadlines apply for all tests; these are listed on SAT® information documents and can be found at the SAT® website at www.collegeboard.org. Consult your school counselor for assistance.

Preparing To Take The SAT® Exam

Cecil County Public Schools offers assistance to help students prepare for the SAT Reasoning Test™. This assistance is offered during the school year depending upon demand, and will help students determine their strong and weak testing areas, provide them with appropriate assistance, and track their progress.

See page 44 in this guide for more information about the SAT® review courses available at your school during the school year.

For practice exams, sample SAT® questions, or the College Board SAT® preparation course, visit www.collegeboard.org.

ACT® Information

Students applying to college may opt to take the ACT®. At most colleges/universities, the ACT® will satisfy both the SAT Reasoning Test™ and some SAT Subject Tests™. National test dates for the 2015-2016 ACT® program are scheduled for:

- September 10, 2016
- October 22, 2016
- December 10, 2016
- February 11, 2017
- April 8, 2017
- June 10, 2017

The ACT® fee is approximately \$40. The optional writing test is an additional \$16.50. Registration deadlines apply for all tests. Registration information can be found at the ACT® website www.actstudent.org. Visit the website for a practice exam or sample ACT® questions. Consult your school counselor for further assistance.

PSAT/NMSQT® Information

The PSAT/NMSQT® is a standardized test that provides practice for the SAT Reasoning Test™. If taken as a junior, it also gives students a chance to enter National Merit Scholarship Corporation (NMSC) scholarship programs. The PSAT/NMSQT® fee is approximately \$15.

Students take the PSAT®:

- to assess reading, mathematics, and writing skills and provide strategies for improvement;
- to identify potential for Advanced Placement courses;
- to provide practice for the SAT®; and
- to identify areas of strength and weakness in reading, mathematics, and writing skills.

Science, Technology, Engineering, & Mathematics (STEM) Academy

The Cecil County STEM Academy is a challenging program of study for students planning to enter college to prepare for careers in mathematics, science, and engineering in an ever-changing and highly technical global society. Students accepted into the program will be offered a rigorous, accelerated curriculum, beyond the regular high school curriculum, rich in lab and work-based experiences. The STEM Academy courses are designed to challenge students with integrated technologies and extensive problem-solving. Opportunities to work with experts in the field and current technology both within the school and the community will be an essential part of the program and prove invaluable as students complete their capstone projects. Students will have the opportunity to apply to the STEM Academy during the second semester of grade 9.

Refer to page 22 for the STEM Academy course sequence.

Secondary Schools Directory

Bohemia Manor High School 2755 Augustine Herman Highway Chesapeake City, MD 21915	410-885-2075
Bohemia Manor Middle School 2757 Augustine Herman Highway Chesapeake City, MD 21915	410-885-2095
Cecil County School of Technology 912 Appleton Road Elkton, MD 21921	410-392-8879
Cherry Hill Middle School 2535 Singerly Road Elkton, MD 21921	410-996-5020
Elkton High School 110 James Street Elkton, MD 21921	410-996-5000
Elkton Middle School 615 North Street Elkton, MD 21921	410-996-5010
North East High School 300 Irishtown Road North East, MD 21901	410-996-6200
North East Middle School 200 East Cecil Avenue North East, MD 21901	410-996-6210
Perryville High School 1696 Perryville Road Perryville, MD 21903	410-996-6000
Perryville Middle School 850 Aiken Avenue Perryville, MD 21903	410-996-6010
Rising Sun High School 100 Tiger Drive North East, MD 21901	410-658-9115 410-378-2273
Rising Sun Middle School 289 Pearl Street Rising Sun, MD 21911	410-658-5535 410-398-3019
Cecil Alternative Program at Providence 3035 Singerly Road Elkton, MD 21921	410-398-6900

Parent Resource Center

The Parent Resource Center exists to benefit all youth with disabilities by assisting parents, educators, and the community. The center provides training and education as well as connections to appropriate social agencies. The center's resources include:

- a lending library of articles, newsletters, books, and videos providing a wide range of special education topics, such as special education law, types of disabilities, support group information, and recreational opportunities;
- a liaison to strengthen communication between parents and school personnel;
- a free workshop on Understanding Special Education;
- community presentations to both parent groups and school staff;
- a referral service for community resources; and
- a Family-to-Family Support Network.

*Located at Cherry Hill Middle School
410-996-5637*

NOTES

••• **NEED-TO-KNOW INFORMATION** •••

Earning College Credit

Cecil County high school students have several options to earn college credits while still enrolled in high school:

- Advanced Placement Program (AP) courses;
- Articulated courses for college credit; and
- Additional college credit options.

Students should begin the planning process early to ensure that appropriate documents are completed in a timely manner.

Advanced Placement® Program (AP) Courses

Advanced Placement® Program (AP) courses are available in the high schools, and students may demonstrate that they have learned the equivalent of college level work by passing the appropriate AP exam(s) provided by The College Board. Course credits granted for AP courses vary from college to college, so students should contact the college(s) of their choice for specific AP policies. Contact your school counselor for assistance.

Not all AP courses are available at every Cecil County high school. The College Board must approve each AP course. Some AP courses may be available online, but must be taken in a classroom setting during the regular school day. To register for AP courses not offered at your school, consult with your school counselor. Students must provide their own transportation to attend AP courses at another high school.

Parents and students should review a variety of criteria (e.g., academic achievement, teacher recommendation, standardized test scores, portfolio review) when considering enrollment in AP courses. To earn AP weighted high school credit, students enrolled in an AP course must take The College Board exam administered at the conclusion of the course. A fee of approximately \$93 for each exam is required. Partial fee waivers are available for qualified students. Scores earned on an AP exam are not included as part of the final grade in the AP course.

A student may also take an AP exam without having taken the course. The College Board will provide a schedule of exams to be given during morning and afternoon sessions over a two-week period in May. Consult your school counselor for exam schedule information.

It is the student's responsibility to have an official AP Score Report sent to their selected college(s) in order to have their scores considered for college credit. To request an official score report and for more information:

www.collegeboard.org

Advanced Placement® Credits Awarded by Cecil College

AP Exam	Credits	CC
AP Art History	3	ART 141
AP Biology *	4	BIO 101(S), BIO 111 <u>or</u> BIO 130 (S), BIO 131 <u>or</u> BIO 132 (S), BIO 133
AP Calculus (AB) *	4	MAT 201 (M)
AP Calculus (BC) *	8	MAT 201 (M) , MAT 202 (M)
AP Chemistry *	3	CHM 103 (S)
AP Computer Science A	3	CSC 109
AP Computer Science AB *	6	CSC 109, CSC 205
AP English Language & Comp	3	EGL 101 (E)
AP English Literature & Comp	6	EGL 101 (E), EGL 102 (H)
AP Environmental Science *	3	ENV 106 (S)
AP European History	6	HST 101 (H), HST 102 (H)
AP French Language & Culture	6	FRN 101 (H), FRN 102 (H)
AP German Language & Culture	6	Art/Humanities Electives (H)
AP Gov't & Politics (U.S.)	3	POS 201 (SS)
AP Human Geography	3	GEO 102 (SS)
AP Macro Economics	3	ECO 222 (SS)
AP Micro Economics	3	ECO 221 (SS)
AP Music Theory	7	MUC 110 (H), MUC 143 (H)
AP Physics B*	8	PHY 181 (SL) PHY 182 (SL)
AP Physics C*	4	PHY 217 (SL)
AP Physics C: Electricity and Magnetism*	4	PHY 218 (SL)
AP Psychology	3	PSY 101 (SS)
AP Spanish Language & Culture	6	SPN 101 (H), SPN 102 (H)
AP Statistics	4	MAT 127 (M)
AP Studio Art: Drawing	6	ART 130 (H), ART 230 (H)
AP U.S. History	6	HST 201 (H), HST 202 (H)

* Must earn a score of 4 or 5 on AP exam to receive Cecil College credit.

Cecil College reserves the right to re-evaluate and make necessary changes to credit awards.

College Credit at No Cost

Students completing specified courses at Cecil County high schools may receive college credit at the cooperating colleges as described in the tables on pages 32 and 33. There is no added cost for college credits granted through articulated agreements.

To receive college credits, students must successfully complete each of the high school courses with a B or better. Articulated credits will be granted upon enrollment at the specific institution.

Additional requirements vary by college, and some colleges may require additional documentation. Please see your school counselor for specific information on how you can earn articulated college credit.

Colleges and Post Secondary Educational Institutions

Cecil College	CC
Baran Institute	BI
Community College of Baltimore County	CCBC
Coppin State University	CS
Delaware Technical and Community College	DTCC
Harford Community College	HCC
Montgomery College	MC
NASCAR Technical Institute	NASCAR
Ohio Technical College	OTC
Pennsylvania College of Technology	PCT
Pima College (AZ)	PC
Pittsburgh Technical Institute	PTI
Stevenson University	SU
Stratford University	StU
Towson University	TU
University of Maryland Baltimore County	UMBC
Univeristy of Maryland University College	UMUC
University of Northwestern Ohio	UNO
Universal Technical Institute	UTI
University of Maryland-Institute of Applied Agriculture	UMD-IAA

Articulated Courses

CCPS Course	College	Credits	College Course
AHP - Cert Nursing Assistant/ GNA I & II	HCC	3	AHS 101
	PTI	4 4	MED 111 Clinical Tech I PCT 106 Intro to Health Care
	SU	3	Course # pending
AHP - Certified Clinical Medical Assistant	SU	3	Course # pending
AP Music Theory	CC	4	MUC 110
	HCC	4	MUS103
American Culinary Federation- Professional Cooking I & II	SIU	up to 18	Cooking Pathway
	BI	Credits Vary	
Automotive Technology I&II	CCBC	4	AUTO126 AUTO171
	CCBC	5	AUTO131 AUTO141
	DTCC	7	AUT114 AUT202
	MC	Credits Vary	
	NASCAR	Credits Vary	
	OTC	4	OCT Automot-ive
	PCT	2	AMT121
	PCT	3	AMT109 AMT112 AMT113
	PCT	4	AMT126
	UNO	6	AU126 AU127 HV101
	UTI	Credits vary	
	CADD I	PTI	4
CADD II	PTI	4	CAD 111 AutoCAD
CADD Technology I&II	CC	6	DAP111 DAP112
	DTCC	6	EDD171 EDD141
	HCC	3	CADD101
CASE	UMD-IAA	3	Elective credit within major
Construction Trades I&II	HCC	2	BPR104
	PCT	Credits Vary	
	PC		
Electrical Trades I&II	PCT PC	Credits Vary	

••• EARNING COLLEGE CREDIT •••

Articulated Courses (cont'd)

CCPS Course	College	Credits	College Course
Fire Science Emergency Medical Services I&II	CC	1 each	Aerial Operator, Fire-ground Operations, Firefighter Safety and Survival, Rescue Technician Extrication, Rescue Technician Operations
	CC	2	Firefighter II
	CC	3	Firefighter I
	CC	7	EMT Basic
Heavy Industrial Maintenance I&II	PCT	Credits Vary	
	PC		
History of American Music	CC	3	MUC 135
	HCC	3	MUS 222
Homeland Security & Emergency Preparedness-Criminal Justice/Law Enforcement I & II	CC	3	CRJ 101
	HCC	3	Intro to Criminal Justice
	UMUC	3	Intro to Homeland Security OR Concepts of Emergency Management
Honors Drama I Honors Drama II	CC	3	THE 160
HVAC Tech & Plumbing I&II	PCT	Credits Vary	
	PC	Credits Vary	
Interactive Media Productions-Simulation & Gaming I & II	CC	2	VCP 116
Introduction to Marketing & Advanced Marketing	CC	3	BUS 212
IT Networking Academy (Cisco Academy) I & II	CC	3	CSC 140
Microsoft Professional I	CC	3	CIS 101
	PTI	3	BUS 106
Music Keyboard II	CC	1	MUC 102
	HCC	1	MUS 115
Music Theory II	CC	3	MUC 143
	HCC	3	MUS 101
Natural Resources I&II	CC	2	HCS credits
	CCBC	Credits Vary	HORT 150, HORT 124, FLOR 105, or HORT 106 and HOR 103
	DTCC	3	AGS103
Oracle I	CC	3	CIS 161
Oracle II	CC	3	CIS 261
Photography I	HCC	3	PHOTO101

CCPS Course	College	Credits	College Course
Photography I&II	CC	4	VCP 101 or VCP 270 (pending portfolio review by VCP Director)
Principles of Business Administration & Management & Principles of Accounting & Finance	CC	3	BUS 103
Project Lead the Way® Biomedical Sequence	SU	4	BIO 113*
Project Lead the Way® Pre-Engineering Sequence	UMBC	3	ENES 101
ProStart	SIU	4.5	CUL 111 CUL121 CUL 160 CUL 270
Teacher Academy of Maryland I & II	CC	3	EDU 101
	CS	3	EDUC 200
	HCC	3	Foundations of Education
	SU	3	Foundations of Education
	TU	3	EDUC 202
Welding & Metals Technology I&II	HCC	2	ENGR101

**Must have a GPA of B or better in the PLTW courses with no more than one C and score 80% or better on all PLTW final exams*

Cecil College Admissions and Scholarship Information

Students choosing to attend Cecil College are required to complete skills assessments in writing, reading, and mathematics. Scores achieved on skills assessments are used to determine enrollment in college courses. More information regarding skills assessments may be obtained by calling Cecil College at 410-287-1000 or visiting the website at www.cecil.edu.

Cecil College offers a college-bound partial scholarship for high school juniors who have a 3.0 GPA or higher and high school seniors who have a 2.5 GPA or higher. Additionally, based on Senate Bill 740, if a family's annual income falls within the Income Eligibility Guidelines set by the USDA Food and Nutrition Service, students may qualify for additional tuition assistance. More information about tuition assistance is available from your school counselor, Student Services at Cecil College (410-287-1000), or the website at www.cecil.edu.

Financial Aid for Early College Entrance Programs

Although students are not eligible to receive federal financial aid until they have graduated from high school or earned a General Educational Development (GED) credential, they may be eligible for selected institutional scholarships.

Additional College Credit Options

College Courses Offered at the High Schools

Students who are 16 years of age or older may begin to take college courses while in high school. Eligible students may take college courses taught by college instructors during the regular schedule at their high schools. Course offerings vary at each high school and may include courses such as Introduction to Psychology, Introduction to Sociology, Fundamentals of Dance, Interpersonal Communications, and Calculus II. These courses may allow students to get a "jump start" on college requirements. Students must complete the appropriate Cecil College skills assessments to determine placement in college courses. Payment arrangements must be made with the college. This option is jointly sponsored by Cecil County Public Schools and Cecil College.

Dual Enrollment Courses

Qualified high school students may enroll in specified college course(s) and receive both high school and college credit for the course(s).

To be eligible for dual credit, college courses must support the student's graduation plan and must align with the courses identified in this *Student Education Planning Guide*. Prior to enrolling in a college course for high school credit, eligible students must meet program guidelines and complete required forms.

For successful completion of college courses that are two (2) or fewer credits, one-half (1/2) high school credit will be awarded. For successful completion of a three (3) credit college course, one (1) high school weighted credit will be awarded. For successful completion of a college course that is four (4) or more credits and at least a 100 level course, two (2) weighted credits will be awarded. Students electing to enroll in a course that counts as college credit and high school credit must have prior approval of the Superintendent through an application process.

Dual Enrollment - Repeat College Courses

Qualified high school students may enroll in repeat college level math and/or science courses for dual enrollment. To be eligible for repeat college level dual enrollment courses, students must have met the four (4) math and/or three (3) science credit requirement. Counselors will seek repeat dual enrollment course approval from the Executive Director of High School Education.



Senior Waiver

Students may request to waive a portion of their high school day to take college courses.

Partial Day Waiver -

Seniors approved for a partial day waiver will attend classes at their high school and at a selected college or career/technical school. They will graduate with their high school class and retain full privileges as high school students. Prior application and approval from the Superintendent is required for this option. Students and parents/guardians must submit requests to the Board for a partial day waiver of the senior year by the deadline indicated in CCPS regulation IKFA-RA which may be found at www.ccps.org.

Students requesting a partial day waiver must:

- have completed all requirements associated with Maryland High School Assessments and service learning;
- have a minimum 2.5 GPA, with a transcript reviewed by the principal;
- meet all college admission requirements and enroll in and complete the minimum number of college credits (level 101 or higher) required for a partial day waiver;
- submit documentation of enrollment in an accredited college or approved career/technical school; and
- be recommended by the principal.

Full Day Waiver -

Seniors on full day waivers attend classes at a selected college or career/technical school and graduate with their high school class. Prior approval from the Superintendent is required for this option. Students and parents/guardians must submit requests to the Board for a full day waiver of the senior year by the deadline indicated in CCPS regulation IKFA-RB which may be found at www.ccps.org.

Students requesting a full day waiver must:

- have completed all requirements associated with Maryland High School Assessments and service learning;
- have a minimum 2.5 GPA, with a transcript reviewed by the principal;
- meet all college admission requirements and enroll in and complete the minimum number of college credits (level 101 or higher) required for a full day waiver;
- submit documentation of enrollment in an accredited college or approved career/technical school as a full-time student; and
- be recommended by the principal.

Students who are granted a full day waiver are eligible to participate in extra-curricular activities including interscholastic athletics provided a portion of the equivalent program takes place in the high school during the traditional day. Full day waiver students are not eligible for valedictorian or salutatorian honors.

Early Graduation

Students may request to terminate attendance in high school at the end of 11th grade if all credit requirements and other applicable graduation requirements are satisfied. The student must:

- be admitted as a full-time student to an approved (accredited) college program; or
- be admitted as a full-time student to an approved (accredited) career, technical or vocational school, or other approved post-secondary program; or
- show proof of enlistment to any branch of the Armed Services; or
- demonstrate compelling personal circumstances to the satisfaction of the Superintendent.

Students electing to graduate early relinquish all student privileges associated with the senior year, including participation in interscholastic athletics and eligibility for valedictorian and salutatorian honors.

Students electing to graduate early:

- will be ranked with the class with which they would normally graduate;
- may take part in graduation ceremonies with the earlier graduation class;
- may sit for senior portraits; however, portraits will not be printed in the senior section of the yearbook; and
- may compete for college financial aid and/or scholarships—local, state, or national.

Students and parents/guardians must submit requests for early graduation to school counselors by June 15 after completion of the tenth grade.

College Campus Courses

Students must be 16 years of age or older to enroll in college courses on college campuses. College course schedules must not conflict with students' required high school schedules. When selecting college classes, please be aware that college classes may meet in the evening or on the weekend.

WHAT IS A COMPLETER PROGRAM?

All students must meet requirements in a completer program in order to graduate. A completer program is:

2 credits in the same world language;

OR

2 credits in advanced technology;

OR

a minimum of 4 credits in a Career & Technology Education (CTE) completer course sequence (see page 67 for CTE completer programs).

Course Descriptions

The courses listed on the following pages are offered by Cecil County public high schools. Course descriptions in this guide are based upon instructional objectives and course standards. Course availability is dependent upon the special needs of the school population, the staff allocation at each school, and the expertise of each school's staff.

Courses are described in the following categories:

- BUSINESS EDUCATION
- CAREER CLUSTER
- CAREER & TECHNOLOGY EDUCATION
- COMPUTER PROGRAMMING
- ENGLISH LANGUAGE ARTS
- FINE ARTS
- MATHEMATICS
- PHYSICAL EDUCATION & HEALTH EDUCATION
- PROJECT LEAD THE WAY®
Biomedical Sciences
Pre-Engineering
- PROSTART®
- SCIENCE
- SERVICE LEARNING
- SOCIAL STUDIES
- SUPPORT SERVICES
- TECHNOLOGY EDUCATION
- WORK-BASED LEARNING
- WORLD LANGUAGES

Please refer to the legend below for the meaning of the icons used in the course descriptions.

LEGEND	
PRE:	Prerequisite Course(s) (Required)
REC:	Recommended Course(s) (Suggested)
	Eligible for College Credit (See pages 31-33 for credit value)
	Student Transportation (Required)
AT	Advanced Technology Education Credit
	Weighted Course
RC	May Be Taken for Repeat Credit
TE	Technology Education Credit
	Physical Exam (Required)
L/C	License/Certification
HSA	High School Assessment Test Requirement
PARCC	Partnership for Assessment of Readiness for College and Careers
P/F	Pass/Fail (non-graded)

BUSINESS MANAGEMENT & FINANCING: MARKETING

PRINCIPLES OF BUSINESS ADMINISTRATION AND MANAGEMENT

0108401 1 Credit Grades 10-12

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, and forms of business ownership, including management concepts, marketing, production and distribution, and accounting and finance. Along with a brief historical perspective, business terminology and principles will be emphasized. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Students will develop the communication skills that will be necessary for success in the workplace and college. Students will be expected to think analytically; improve written and oral communication skills; enhance listening and questioning skills; learn and practice the art of conversation; improve public speaking skills; broaden their awareness of career options; practice using teamwork to make decisions and solve problems; and learn why interpersonal and networking skills can help them succeed. Students will also be taught the necessary MS Word skills in application and relevance in the business world.

PRINCIPLES OF ACCOUNTING AND FINANCE

0108501 1 Credit Grades 10-11

This course provides students with the knowledge necessary to manage and maintain a company's financial resources in daily operating decisions. A mastery of fundamental accounting concepts, skills, and competencies is essential to making informed business decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of manual and computerized systems for service and merchandising business. Students will apply appropriate accounting principles to payroll and tax liabilities. Students will learn to apply these concepts using MS Excel. Students will identify positions and career paths in the field of accounting and will examine the roll of ethics and social responsibility in decision making. **PRE:** *Principles of Business Administration and Management.*

INTRODUCTION TO MARKETING

0108601 1 Credit Grades 11-12

This course introduces students to the essential concepts of marketing theory and to the foundations, functions, and benefits of marketing in a free enterprise system. Throughout the course students will use and incorporate technologies to conduct research and communicate. In addition, students will investigate the various and ever-improving alternatives for electronic marketing. Students will understand and demonstrate strong interpersonal skills and develop an appreciation of human diversity. By the end of the course, students will have a solid understanding of the many diverse career opportunities in the field of marketing. **PRE:** *Principles of Business Administration and Management; Principles of Accounting and Finance.*

ADVANCED MARKETING

0108701 1 Credit Grades 11-12

This course is designed to be the second of two sequential marketing courses. This course builds on all of the concepts studied in Introduction to Marketing by giving the students in-depth, comprehensive project-based learning opportunities. Students will apply their understanding of consumer buying behavior and relationships; the tools and techniques used by organizations that identify the factors that influence marketing strategy decisions; market segmentation and target marketing; and other considerations in order to create a written professional marketing plan. Throughout the course, students will use strong interpersonal skills and corporate technologies when conducting primary and secondary research. In addition, students will include alternatives of electronic and internet marketing within their marketing plan. Students will create and/or use a marketing information system(s) when working with or collecting data. Students will integrate their knowledge of legal issues, ethics, diversity and social responsibilities in developing their marketing plan. **PRE:** *Principles of Business Administration and Management; Principles of Accounting and Finance; Introduction to Marketing.*

BUSINESS EDUCATION INTERNSHIP

0130101 1 Credit Grade 12

0130102 2 Credits Grade 12

This is a work-based learning course in which students observe and interact with professionals performing related pathway activities in an approved professional business setting. The internship provides the opportunity for professional and personal growth. A strict attendance policy is in effect. Students will receive a letter grade for this course based upon the number of weekly hours completed, weekly reflection journals, and monthly evaluations from the employer.  **RC**

ENTREPRENEURSHIP

0109301 1 Credit Grades 10-12

This course enables students to develop business plans, purchase a product line, sell the product, and complete a cost analysis. The course incorporates various aspects of business management including accounting, marketing, economics, and business law. Students learn to manage financial resources. Banking, investing, borrowing, and risk management (insurance) are core content areas of the course. Students gain knowledge and understanding of revenue, expenses, credit, and money management to enable them to make informed decisions in a highly technical and competitive society.

MICROSOFT PROFESSIONAL I

0106301 1 Credit Grades 10-12

This course offers instruction in the Microsoft Office professional suite of applications and assists students in developing online and information technology skills to meet the demands of a digital society. Students develop the communication skills that are necessary for success in both the workplace and college. Students completing this course develop proper input techniques and the knowledge required for the use of computer hardware, software, networks, and the Internet. Students gain competencies in MS Word, MS

Excel, MS Access, and MS PowerPoint. Students earning a grade of B or higher in Microsoft Professional I may receive articulated college credit.



FUTURE BUSINESS LEADERS OF AMERICA

Future Business Leaders of America (FBLA) chapters are active in every high school in Cecil County. Students develop qualities that are necessary to become responsible business leaders through participation in community service activities, competitive events, conferences, and leadership training. Competitions are held in the spring and winners advance to national competition in June. www.fbla-pbl.org

CAREER CLUSTER

COMMUNICATING THROUGH THE ARTS

0432001 1 Credit Grades 10-12

Students explore career options for the arts and communications pathways of digital arts, literary arts, performing arts, and visual communications. Utilizing community resources, the course emphasizes hands-on applications that include research, design, rehearsal, performance, and reflection. After investigating and experiencing several career pathways, students specialize in an area of interest. Through ongoing collaboration with peers and local professionals, students combine their communication, technical, and performance talents in a culminating production.

INTRODUCTION TO BUSINESS, FINANCE, & MARKETING

0131001 1 Credit Grades 10-12

This course introduces the concepts and provides real world experiences in business, finance, and marketing to help students understand what it is like to work in these areas. Students create their own businesses and apply business practices that increase their likelihood of success. Students also experience making hotel/travel reservations and planning conferences.

INTRODUCTION TO PUBLIC SERVICE

1033001 1 Credit Grades 10-12

This course is designed to give students a sampling of the many career experiences available in the Health and Human Services career cluster. Students engage in real-life situations and problem solving in the fields of health care, education, law enforcement, and emergency services. By solving problems that occur commonly in each of these professions, students not only become aware of the skills necessary to be successful, but also learn to appreciate the importance of health and human services in our modern communities.

INTRODUCTION TO SCIENCE, ENGINEERING, & TECHNOLOGY

0934001 1 Credit Grades 10-12

Through hands-on activities, students explore career options and solve problems typically faced by people working in the following areas: construction and manufacturing; environmental, agricultural, and natural resources; biotechnology; information technology; and engineering. Authentic workplace documents and artifacts are used in the course. Students are required to complete a project and make a presentation for each unit in the course.

CAREER & TECHNOLOGY EDUCATION (CTE)

The following Career and Technology Education (CTE) programs are offered only at the Cecil County School of Technology (CCST). Students from the five county high schools have the opportunity to begin most programs during the spring semester of their junior year by a designated application process (see page 26). Students complete their programs during the fall semester of their senior year. Students are encouraged to develop positive work attitudes while building individual skills for success. Transportation is provided from the home school to and from CCST. Program fees include the cost of trade appropriate clothing, tools, and license/certification tests. Transfer students will be considered on a case-per-case basis based on program availability.

ACADEMY OF HEALTH PROFESSIONS: CERTIFIED NURSING ASSISTANT/GERIATRIC NURSING ASSISTANT I & II

0100303 3 Credits Grade 11

0100403 3 Credits Grade 12

This program uses projects and problem-based learning, clinical and internship experiences, and classroom and lab instruction to teach students about the field of health-care. Students are introduced to healthcare knowledge and skills through two foundation courses with content that was developed by Stevenson University. Students will gain knowledge of medical terms, nursing practices, and the skills necessary to pass the required Certified Nursing Assistant/Geriatric Nursing Assistant examination. Students are required to have a physical and dental exam, the Hepatitis B vaccination, and PPD test prior to starting the program. Students must complete 40 hours of skilled nursing experience at local long term facilities as mandated for certification through the Maryland Board of Nursing. Parents/guardians/students are responsible for transportation to and from the clinical sites. Federal and state background checks are required for certification. Finger-printing will be completed on site at the School

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of Technology. Students earning a grade of B or higher in Academy of Health Professions I & II may receive articulated college credit. **PRE:** *Algebra I (or equivalent)* (\$70 for finger-printing and criminal background check, \$130 for both certifications, \$90 for workbooks, and approximately \$60 for uniforms)    

ACADEMY OF HEALTH PROFESSIONS: CERTIFIED CLINICAL MEDICAL ASSISTANT

0100503	3 Credits	Grade 11
0100603	3 Credits	Grade 12

This program uses projects and problem based learning, classroom, and lab instruction to teach students about the field of healthcare. There will be some clinical and/or internship experience within the program. Students will learn both administrative and clinical duties such as how to perform basic lab tests; medical office management; prepare patients for physical examinations; take readings of patients' vitals: temperature, pulse, respiration, and blood pressure; emergency procedures; chart procedures; sterilization techniques; and take EKGs. Career opportunities are found in doctors' offices, clinics, hospitals, health maintenance organizations, and adult care centers. Students can earn CPR/AED/First-Aid certifications. Students will take the CCMA Certification Exam. Upon successful completion, students will receive a provisional certificate. After graduation, students submit their diploma and provisional becomes full certification. **PRE:** *Algebra I (or equivalent)* (\$150 for exam, \$60 for practice tests, \$60 for uniforms, \$45 for book, \$70 for finger-printing and criminal background check, \$40 for materials)



AMERICAN CULINARY FEDERATION - PROFESSIONAL COOKING I & II

0106303	3 Credits	Grade 11
0106403	3 Credits	Grade 12

The Culinary Arts program partners with the American Culinary Foundation (ACF) to prepare students for successful careers in the food and beverage industry. This program educates high school students in professional cooking. Students will progress through a program that includes hands-on education in food production, while developing professionalism and proficiency in cooking, baking, cost control, nutrition, sanitation, and food marketing. Students in this program gain practical experience through school-based enterprises and/or work-based in the culinary industry. When the clinical experience is combined with science classes, this program will provide the necessary skills for further education and career success. **PRE:** *Algebra I (or equivalent)* (\$100 for exams, \$200 for uniforms and materials)  

APPLIED TRADES ACADEMY I & II

1140401	1 Credits	Grade 9
1140402	2 Credits	Grade 9

This trade skills experience program provides selected students with an opportunity to explore entry level trade skills at the Cecil County School of Technology. Specifically, students gain experience with basic skills in plumbing, masonry, carpentry, electricity, and auto detailing. Students also develop employability skills including the employment application process, as well as successful work habits. Successful completion satisfies the student's pathway course requirement for graduation. Students will also be enrolled in English 9 and the appropriate level of mathematics **PRE:** *Pre-Algebra or Algebra* (\$25 for uniforms)  

AUTOMOTIVE TECHNOLOGY I & II

0102103	3 Credits	Grade 11
0102203	3 Credits	Grade 12

This program prepares students to diagnose, maintain, and service automobiles and light trucks. Instruction includes: diagnostics and repair of engines; fuel, electrical, and computerized electronic systems; emission control; ignition; cooling, and brake systems; drivelines, and suspension systems. Instruction is given in the adjustment and repair of individual components in the fuel injection, ignition starting, charging, air conditioning, body electrical, emissions systems, and in-car engine repair. Wheel alignment and vehicle safety systems are also studied and serviced. Time spent in this program is credited toward the experience requirement for end of program NATEF testing as well as ASE certification preparation. Academic skills of reading, writing, and math are heavily utilized and reinforced. Professional behaviors and interpersonal courtesy standards are also expected. Students earning a grade of B or higher in Automotive Technology I & II may receive articulated college credit. **PRE:** *Algebra I (or equivalent)* (\$120 for uniforms and boots plus \$40 for certification exams)  

CONSTRUCTION TRADES I & II

0103503	3 Credits	Grade 11
0103603	3 Credits	Grade 12

This program is a nationally recognized, competency-based program that prepares students for the NCCER core and carpentry skills certification tests. This apprentice program requires the student/trainee to complete a designated number of hours in the classroom and on the job. This program prepares students to layout, fabricate, erect, install, and repair wooden/metal structures and fixtures using hand and power tools. Concepts related to building materials, material estimating, blueprint reading, and common systems of framing are included in the curriculum. The skill set from this program may lead to various opportunities in the construction industry. **PRE:** *Algebra I (or equivalent)* **REC:** *Design & CADD Tech I* (\$150 for uniforms and equipment; personal hand tools are required)   

COSMETOLOGY I (Principles & Practice of Cosmetology)

0105106 6 Credits Grade 11

This course is the first year of a three-semester program which requires 1,500 hours of instruction; 1,000 of which must be earned by the end of the junior year. Students develop and practice basic skills in hair, skin, and nail care; develop a broad understanding of the variety of career options available to a licensed cosmetologist; and learn how science and math are fundamental aspects of the practice of cosmetology. Units include anatomy and physiology, infection control, basic chemistry, and electricity. All students are required to participate in a minimum of a 100 hour work-based learning experience during the summer. **PRE:** *Algebra I (or equivalent)* **REC:** *Foundations of Art* (approximately \$240 for uniform and materials)

COSMETOLOGY II (Mastery of Cosmetology)

0105203 3 Credits Grade 12

This course provides students the opportunity to further refine and apply skills that support all aspects of the cosmetology industry, and assists in preparing students to obtain employment in the field of cosmetology. Classroom and practical training emphasize academic, technical, and workplace skills through clinical application. To receive course credit, students must complete 1,500 hours and take the Maryland State Board of Cosmetology examination. Successful completion of this course qualifies a student for a science credit in Applied Science/Cosmetology. **PRE:** *Cosmetology I* (\$80 for required state licensing exam/approximately \$180 for State Board kit) 

APPLIED SCIENCE/COSMETOLOGY

0101101 1 Credit Grade 12

This credit fulfills one of the three science credits required for graduation and is granted as a result of studying anatomy, physiology, chemistry, and dermatology. Credit will be awarded to students who successfully complete Cosmetology II.

CURRICULUM FOR AGRICULTURAL SCIENCE EDUCATION (CASE) I & II

0113303 3 Credits Grade 11

0113403 3 Credits Grade 12

This program prepares students to be successful in numerous careers in the agricultural sciences field. Students will be introduced to the world of agriculture, the pathways they may pursue, and the science, mathematics, reading and writing that will be used throughout the program. Students will participate in hands-on projects and activities to recognize the characteristics of animal science and participate in projects that veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. Students will also take part in rigorous instruction through hands-on activities, projects, and problems designed to build content knowledge

and technical skills in the field of biotechnology. The expectation is for students to become proficient in projects involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Throughout the program, students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. Students who complete the student-directed research project will be eligible to apply for and earn three transcripted credits from the Institute of Applied Agriculture at the University of Maryland. **PRE:** *Algebra I (or equivalent)* (\$100 for uniforms) 

APPLIED SCIENCE/CASE

0113301 1 Credit Grade 12

This credit fulfills one of the three science credits required for graduation and is granted as a result of studying earth science, ecology, environmental science, biology, animal science, and chemistry. Successful completion of this course (Level II) qualifies a student for a science credit in Applied Science/CASE.

ELECTRICAL TRADES I & II

0108103 3 Credits Grade 11

0108203 3 Credits Grade 12

This program prepares students to install, operate, maintain, and repair electrically energized systems such as residential, commercial, and industrial electric power wiring; and install ROMEX and M.C. wiring as well as conduit systems and electrical-distribution panels. This program emphasizes safe wiring procedures and current National Electrical Code standards. **PRE:** *Algebra I (or equivalent)* (\$250 for uniforms and safety boots)



FIRE SCIENCE/EMERGENCY MEDICAL SERVICES I & II

0119103 3 Credits Grade 11

0119203 3 Credits Grade 12

This program is designed to provide knowledge of fire, rescue, emergency medical, and hazardous materials management skills and techniques that can be used by individuals who have an interest in firefighting/emergency services. This program is a joint venture among the Cecil County Public Schools, Cecil County Firemen's Association, Cecil County Emergency Medical Services, and Maryland Fire and Rescue Institute of the University of Maryland at College Park. Students earning a B or higher in Fire Science/Emergency Medical Services I & II may receive articulated college credit. **PRE:** *Algebra I (or equivalent)* Must be at least 16 years of age, a member in good standing with a Cecil County fire or rescue dept. (or a fire company involved in a mutual aid agreement with Cecil County), and have completed a Maryland Fire and Rescue Institute Verification of Membership and medical clearance form. (\$100 for uniforms)   

HEAVY INDUSTRIAL MAINTENANCE I & II

0123103	3 Credits	Grade 11
0123203	3 Credits	Grade 12

This program provides students an opportunity to learn about the industry as it relates to building maintenance. Participants gain experience in a variety of electrical and maintenance skills including fasteners and anchors, electrical safety, oxyfuel-cutting, conduit bending, and AC motor controls. Skill competencies include commercial and industrial wiring, piping practices, shielded metal arc welding, and welding safety. The course of study correlates to the modules of the National Center for Construction Education and Research (NCCER) standards. **PRE:** *Algebra I (or equivalent)* **REC:** *Design & CADD Technology I* (\$205 for uniforms and equipment)  **L/C**

HOMELAND SECURITY & EMERGENCY PREPAREDNESS-CRIMINAL JUSTICE / LAW ENFORCEMENT I & II

0104703	3 Credits	Grade 11
0104803	3 Credits	Grade 12

This program introduces students to Homeland Security and Emergency Preparedness guidelines, concepts, and action plans. Emphasis will be placed on unique aspects of public safety and public health. Students will explore the various methodologies for intelligence gathering and dissemination and will introduce students to various local, state, and federal assets. Students will prepare an action plan that includes initial notification, emergency response (on and off scene), and recovery. Students will also be introduced to multiple aspects of criminal justice and law enforcement. Students will learn evidence collection, analysis, and forensic examination. The role of law enforcement officials as a first responder will also be discussed as well as the duties of police officers. **PRE:** *Algebra I (or equivalent)* (\$100 for uniforms plus exam fees)  **L/C**

HVAC TECHNOLOGY/PLUMBING I & II

0114303	3 Credits	Grade 11
0114403	3 Credits	Grade 12

The HVAC/Plumbing program offers students to learn components of the basic refrigeration cycle, testing of components, basic troubleshooting pertaining to electrical components, charging of units with refrigerant, using tools properly, proper air flow, and combustion of fuels in heating pertaining to gas and oil heat. The program includes instruction in diagnostic techniques, the use of testing equipment, and the principles of mechanics, electricity, and electronics as they relate to these systems. The plumbing portion of the program is learning plumbing tools, codes for piping

to plumbing fixtures on projects including water closets, sinks, tubs, faucet installations, drainage codes, and water pumps. This program is a nationally recognized, competency-based program that prepares students for the NCCER core, HVAC Leveling I, and Plumbing Level I certification tests. **PRE:** *Algebra I (or equivalent)* (\$225 for certification exam, uniforms, and safety boots)  **L/C**

INTERACTIVE MEDIA PRODUCTION-SIMULATION & GAMING I & II

0104503	3 Credits	Grade 11
0104603	3 Credits	Grade 12

This program includes a strong foundation in arts and communication with particular emphasis on design, graphic and media communications, interactive technologies, and project development. Students will advance their knowledge and skills in media design and production through project planning and product development. Students will demonstrate the use of multiple tools and modalities in the production process. Students will design, code, build, test, and troubleshoot for basic custom programs for multimedia applications. They will create web applications with advanced interactive components such as games and virtual world, and effectively adapt visual communication strategies and styles specific to audiences. Emphasis is placed on group project development and a layered portfolio. Students will take the Adobe Creative Suite Certification exam and/or the Web Design (WOW). **PRE:** *Algebra I (or equivalent)* (\$200 for exams, materials, and uniforms)  **L/C**

IT NETWORKING ACADEMY (CISCO ACADEMY) I & II

0104303	3 Credits	Grade 11
0104403	3 Credits	Grade 12

This is a nationally recognized program that prepares students for successful careers in information technology fields such as computer network design and administration; hardware, software and network installation; local and wide-area network (LAN/WAN) management; and systems engineering. The IT Networking Academy (Cisco Academy) prepares students with the professional skills they require to pursue quality academic and professional opportunities. Particular emphasis is given to using decision-making and problem-solving techniques in the application of science, mathematics, communication, and social studies concepts to solve networking problems. **PRE:** *Algebra I (or equivalent)* (\$200 for uniforms and certification exams)  **L/C**

NATURAL RESOURCES I & II

0113103 3 Credits Grade 11
 0113203 3 Credits Grade 12

This program offers students the opportunity to experience hands-on activities in landscaping, greenhouse production, floral design, equipment operation, pesticides, nursery production, hydroponics, and aquaculture. Successful completion of Natural Resources I & II qualifies a student for a science credit in Applied Science/Natural Resources. **PRE:** *Algebra I (or equivalent)* (\$45 for uniforms plus \$35 for certification exams)



APPLIED SCIENCE/NATURAL RESOURCES

0121101 1 Credit Grade 12

This credit fulfills one of the three science credits required for graduation and is granted as a result of studying and applying earth science, ecology, environmental science, biology, and chemistry concepts in the study of natural resources. Credit will be awarded to students who successfully complete Natural Resources I & II.

PROJECT LEAD THE WAY: BIOMEDICAL SCIENCES I & II; HONORS BIOMEDICAL INNOVATIONS™

See page 54-55 for information and course descriptions

0119003 3 Credits Grade 11
 0110003 3 Credits Grade 12

(\$100 for uniforms and materials)

TEACHER ACADEMY OF MARYLAND I & II

0100703 3 Credits Grade 11
 0100803 3 Credits Grade 12

The Teacher Academy of Maryland program aligns with the Interstate Teacher Assessment and Support Consortium (InTASC) and the Maryland Essential Dimensions of Teaching (EdoTs). The program prepares students for further education and careers in the educational profession. The program focuses on teaching as a profession, human growth and development, learning theory, and curriculum and instruction for the secondary level. The credits are designed to articulate to a Maryland post secondary teacher education program. Upon completion of the program and passing the ParaPro test, high school graduates are ready for employment in the educational field. This program is based on the outcomes of the Maryland Associate of Arts in Teaching (A.A.T.) degree, which aligns with the National Council for the Accreditation for Teacher Education (NCATE) standards. **PRE:** *Algebra I (or equivalent)* (\$100 for uniforms and test fees)



TRADE EXPERIENCE

0120202 2 Credits Grade 12

This internship opportunity is for seniors who have completed a Career & Technology Education program with a grade of C or better. It is the student's responsibility to obtain employment/ internship directly related to his/her completed program for a

minimum of 15 hours per week. Supervision is provided by the career facilitator. Students will receive a letter grade for this course based upon the number of weekly hours completed, weekly reflection journals, and monthly evaluations from the employer. 

WELDING & METALS TECHNOLOGY I & II

0116103 3 Credits Grade 11
 0116203 3 Credits Grade 12

This program is a nationally recognized, competency-based program that prepares students for the NCCER core and industrial welding level I certification tests. This program covers the fundamental processes of oxyacetylene, shielded metal arc, gas metal arc, gas tungsten arc, and flux cored arc welding. Identification of welding equipment, metals, metal shapes, joint design, technical drawing reading, related math, and technical reading are included. **PRE:** *Algebra I (or equivalent)* (A grinder is also required for this course. \$50 for certification exam; \$200 for uniforms and materials)   

SkillsUSA

SkillsUSA is a partnership among business, industry, and the school system. It is a local, state, and national student organization that addresses personal skills, teamwork, and dependability. Communications, customer relations, and technical skills are vital to the success of students in the workplace. Students improve their trade area skills through a championship program that starts locally, advances through a regional/state championship program, and culminates at the national level. For more information, visit: www.skillsusa.com.

NOTES

COMPUTER PROGRAMMING

PROGRAM DEVELOPER

0153601 1 Credit Grades 10-12

This course is designed for students interested in learning software development skills such as writing programs that produce solutions to business and industry problems. Students use Visual Studio 2005 in a Windows environment to gain a foundation of the process of programming and create executable programs that are user-friendly. Critical thinking, self-sufficiency, problem solving, and teamwork skills are required.

ORACLE I

Database Design & Programming with Structured Query Language (SQL)

0155401 1 Credit Grades 10-12

This is the first of two courses leading to an Oracle certification. Oracle is one of the leading providers of database management systems and runs many of the large websites on the Internet. The course includes learning the programming language for creating and maintaining databases. SQL is used extensively within the business community. Data modeling involving mapping large amounts of data focuses on the relationships between various types of data in a database. Students enrolled in this course are required to take the Oracle I certification exam. Students earning a grade of B or higher in Oracle I may receive articulated college credit. (Approximately \$57 for exam) (This course is also offered at Cecil College.) **PRE:** *Algebra I (or equivalent)* **REC:** *Program Developer*



ORACLE II

Database Programming with PL/SQL

0155801 1 Credit Grades 10-12

This is the second course leading to an Oracle certification. This course introduces students to the PL/SQL programming language using the Oracle Academy online curriculum. Students learn about anonymous Procedural Language/ Structured Query Language (PL/SQL) blocks and subprograms as well as how to develop stored procedures, functions, and packages. Students extend their knowledge of PL/SQL by learning more advanced topics such as creating database triggers, manipulating large objects, and managing dependencies. Demonstrations and hands-on projects using the Academy PL/SQL programming environment reinforce the programming concepts taught in the course. Students enrolled in this course are required to take the Oracle II certification exam. Students earning a grade of B or higher in Oracle II may receive articulated college credit. (Approximately \$200 for exam) (This course is also offered at Cecil College.)

PRE: *Oracle I*

AP COMPUTER SCIENCE

0146302 2 Credits Grades 11-12

This course emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development. It also includes the study of data structures and abstraction. Maryland Virtual Learning Opportunities is offering this course using course content from Florida Virtual School that has been modified to meet Maryland State Department of Education requirements. Students play the role of a "Survivor" while they work their way through the course material. Java is the computer language used. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Algebra II* **REC:** *Program Developer or Oracle I*



ENGLISH LANGUAGE ARTS

The English Language Arts program of study reflects the CCPS philosophical framework through concept-based curriculum aligned to Common Core State Standards (CCSS). A balance of high interest contemporary text and classical works of fiction and non-fiction comprise the reading requirements while writing emphasizes text-based argumentation, explanation, and narration.

The English Language Arts curricula includes a required four-course sequence and a selection of electives that complements those core classes and allows students to explore specific areas of study (e.g., publications, the art of expression, world mythology, etc.) according to personal interest. Availability of these elective courses is dependent upon student interest and staff allocation.

Students who have not met the Maryland College and Career Readiness Standard by the end of their junior year must select an English course that meets the MSDE transition course requirement during their senior year (College and Career Literacy - page 45).

ENGLISH 9

0200301 1 Credit Grade 9

0200311 1 Credit Grade 9

Aligned to broad concepts and grade-specific skills, this course requires students to understand those concepts as they apply to reading, writing, speaking, listening, and using language. As students explore short and extended pieces of literature, they are expected to transfer their understandings of author purpose and choice to make deliberate decisions in their own writing. Required reading outside the classroom is essential to success in this course. Assignments in this class may expose students to mature and sensitive issues.

HONORS ENGLISH 9

0201301 1 Credit Grade 9
 0201311 1 Credit Grade 9

Aligned to broad concepts and grade-specific skills, this course requires students to think about those concepts as they apply to reading, writing, speaking, listening, and using language. As students explore short and extended pieces of literature, they are expected to transfer their understandings of author purpose and choice to make deliberate decisions in their own writing. Required reading outside the classroom is essential to success in this course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied. 

ENGLISH 10

0202301 1 Credit Grade 10
 0202311 1 Credit Grade 10

Aligned to broad concepts and grade-specific skills, this course requires students to deepen their level of integrated thinking as they read brief and extensive pieces of fiction and non-fiction from around the world. As students come to understand the multiple perspectives and timelessness of these readings, they are expected to transfer those understandings to decisions they must make as writers themselves. Required reading outside of the classroom is essential to success in this course. Assignments in this class may expose students to mature and sensitive issues. **PARCC**

HONORS ENGLISH 10

0203301 1 Credit Grade 10

Aligned to broad concepts and grade-specific skills, this course requires students to deepen their level of integrated thinking as they read brief and extensive pieces of fiction and non-fiction from around the world. As students come to understand the multiple perspectives and timelessness of these readings, they are expected to transfer those understandings to decisions they must make as writers themselves. Required reading outside of the classroom is essential to success in this course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied. 

PARCC

ENGLISH 11

0204301 1 Credit Grade 11
 0204311 1 Credit Grade 11

Aligned to broad concepts and grade-specific skills, this course requires students to investigate the literary value of our nation's foundational documents (e.g., The Declaration of Independence, The Constitution, Common Sense, etc.). As a result of closely reading key passages from these sources, students will understand how the documents affect literature and identity throughout American history. Required reading outside of the classroom is essential to success in this course. Assignments in this class may expose students to mature and sensitive issues.

HONORS ENGLISH 11

0205301 1 Credit Grade 11

Aligned to broad concepts and grade-specific skills, this course requires students to investigate the literary value of our nation's foundational documents (e.g., The Declaration of Independence, The Constitution, Common Sense, etc.). As a result of closely reading key passages from these sources, students will understand how the documents affect literature and identity throughout American history. Required reading outside of the classroom is essential to success in this course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied. 

ENGLISH 12

0206301 1 Credit Grade 12
 0206311 1 Credit Grade 12

Aligned to broad concepts and grade-specific skills, this course requires students to fully integrate their thinking as they transition to post-secondary school or the workforce. Students will use their evaluation of various texts from around the world to understand how others think and to develop a global perspective of their own. They are expected to transfer those understandings to enhance the value of their writing. Required reading outside of the classroom is essential to success in this course. Assignments in this class may expose students to mature and sensitive issues.

HONORS ENGLISH 12

0207301 1 Credit Grade 12

Aligned to broad concepts and grade-specific skills, this course requires students to fully integrate their thinking as they transition to post-secondary school or the workforce. Students will use their evaluation of various texts from around the world to understand how others think and to develop a global perspective of their own. They are expected to transfer those understandings to enhance the value of their own writing. Required reading outside of the classroom is essential to success in this course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied. 

AP LANGUAGE & COMPOSITION

0211302 2 Credits Grades 10-12

This course focuses on American literature with an emphasis on non-fiction and some fiction through an accelerated and extended curriculum to accomplish college-level writing assignments and literary analysis for preparation to take the AP Language and Composition exam. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic writing experiences. Outside class reading and writing assignments with follow up requirements may occur. Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature. To earn a weighted high school credit, students enrolled in an AP

course must take the College Board exam administered at the conclusion of the course. The purchase of some support material is optional. (AP exam fee is approximately \$93.)  

AP LITERATURE & COMPOSITION

0213302 2 Credits Grades 10-12
 This course focuses on British literature through an accelerated and extended curriculum to accomplish college-level writing assignments and literary analysis in preparation for the AP Literature and Composition exam. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic writing experiences. Outside class reading and writing assignments with follow up requirements may occur. Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. The purchase of some support material is optional. (AP exam fee is approximately \$93.)



ENGLISH FOR SPEAKERS OF OTHER LANGUAGES I

0310301 1 Credit Grades 9-12
 This course focuses on teaching English as a second language to beginning English Language Learners (ELLs) by developing English proficiency in the areas of listening, speaking, reading, and writing. ESOL teachers introduce basic academic language and skills needed for success in the general classroom setting. In addition, ESOL teachers assist ELLs as they adjust to a different educational system, school procedures, teacher expectations, peer interactions, and American culture. **RC**

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES II

0311301 1 Credit Grades 9-12
 This course focuses on further developing skills acquired in English for Speakers of Other Languages I with increased emphasis on reading, writing, and academic skills while continuing to develop listening and speaking skills. Students work toward increasing their academic vocabulary and achieving proficiency in English as measured by the Maryland Test of English Language Proficiency. **RC**

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES III

0312301 1 Credit Grades 9-12
 This course is designed for the Intermediate Level ELL who has not achieved proficiency as measured by the Maryland Test of English Language Proficiency. Students continue to develop their language and academic skills focusing on strategies for success in the general classroom setting. **RC**

COLLEGE AND CAREER LITERACY

0214315 1/2 Credit Grade12

This hybrid course utilizes a disciplinary literacy approach that teaches students strategies for reading and understanding complex texts in different subject areas. Therefore, students will not only explore literature and literary nonfiction but will grapple with scientific and historical texts as well. Students will develop, defend, and demonstrate understanding of ideas in various formats, e.g. essays, brochures, digital presentations, etc.

HONORS THESIS DEVELOPMENT AND INFORMATION ANALYSIS

0219401 1 Credit Grades 10-12

The primary objective of this course is to provide a research-based focus for students to hone skills that will lead to post-secondary success. The course fosters a sense of accountability within students to research and advocate particular correlations between two factors that requires advanced inductive reasoning skills and logic. The following are a few of the course methods:

- Research-based inquiries and cross-referencing material
 - Research-oriented projects
 - Understanding the importance of credibility within research
- In this research-based course, students delve into the dynamic of thesis development and support, with specialized areas of focus that employ twenty-first century skills such as collaboration, critical thinking, work ethic, global awareness, and technological literacy. 

MEDIA PUBLICATIONS

0228305 1/2 Credit Grades 10-12
0228301 1 Credit Grades 10-12

Media Publications is about understanding how systems function to create and distribute media with the intention of conveying a message. Everything within our global community is dependent on something else. Within the context of Media, this may apply to a studio system (consisting of cameras, lighting, audio equipment) which works toward the objective of a broadcasted message. A balance of technological experience and abstract conceptual understanding dominates this course offering. As a result, students will be expected to represent their ideas metaphorically. To begin generating this level of understanding, case studies will serve as primary course resources. **PRE: Completion of application and letters of recommendation RC**

READ 180

0234302 2 Credits Grades 9-12

This course combines reading instruction with the use of technology to give selected students an opportunity to achieve reading fluency through a combination of instructional, modeled, and independent reading experiences. **RC**

SAT REVIEW

0230005 1/2 Credit Grades 10-11
0230001 1 Credit Grades 10-11

SAT: Verbal Review

0231304	1/4 Credit	Grades 10-11
0231305	1/2 Credit	Grades 10-11

SAT: Mathematics Review

0732304	1/4 Credit	Grades 10-11
0732305	1/2 Credit	Grades 10-11

This course helps students prepare to take the SAT Reasoning exam. Students are involved with a review of vocabulary and test-taking skills, as well as mathematical, critical reading, and writing concepts. Support materials may need to be purchased.

REC: *Geometry*

SHAKESPEARE

0226005	1/2 Credit	Grades 11, 12
0226001	1 Credit	Grades 11, 12

This course offers Shakespearean plays to illustrate the development of the playwright from his early comedies, through the historical plays and tragedies, to his final semi-comedies.

SPEECH/DISCUSSION & DEBATE

0221305	1/2 Credit	Grades 10-12
0221301	1 Credit	Grades 10-12

Speech, Discussion, and Debate is about developing a professional speaking persona and personal credibility, determining source credibility, applying effective research, using logic, and shaping communication to develop our global society. Throughout the process, foundational ideas surrounding communication are discussed and made to flourish. Most of all, students should feel free to speak their minds and enjoy communication. Students' initial speaking experiences along with their research will be refined into the argumentation practice which they will later review (through video experience) and critique in order to perfect their own skills. They will also use research skills from the first two modules to create a counterargument against themselves; this will provide them with an in-depth look at both sides of an argument.

STRATEGIC READING/WRITING

0229405	1/2 Credit	Grades 9-12
0229401	1 Credit	Grades 9-12

This course helps students become more successful in all of their courses by providing them with reading and writing strategies for tackling challenging high school texts and the various texts they will encounter over their lifetime. **RC**

THE ART OF EXPRESSION

0227305	1/2 Credit	Grades 10-12
0227301	1 Credit	Grades 10-12

The Art of Expression is about identifying and analyzing why artists (poet, novelist, sculptor, etc.) created their work and the impact those choices have on society. The overarching goal of these units is to build understanding in how perspective, interaction, cycles, and culture influence art. In addition to discovering and analyzing these relationships, students will create several original pieces and will also complete writing tasks that examine how artistic repetition affects the creative process. Additionally,

this course will expose students to the cycles of art creation, stereotypes, and the influences of art and trends on society.

THE ART OF EXPRESSION II: FILM STUDY

0235101	1 Credit	Grades 11-12
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The Art of Expression II: Film Study is an elective course and focuses on understanding movies as visual narratives. Students will analyze and study language systems of film (such as photography, editing, sound, acting, plot and plot-writing, etc.). By studying these tools used by filmmakers, students will be able to better understand how movies are constructed and develop the criteria necessary to write and create films.

WORLD MYTHOLOGY

0223305	1/2 Credit	Grades 10-12
0223301	1 Credit	Grades 10-12

World Mythology is the study of a collection of myths that belong to people and addresses their origin, history, deities, ancestors, and heroes. The study of mythology is designed to reveal core values embedded in a particular society which will require students to study multiple cultures, faiths, and beliefs. The underlying goal of this course is for students to uncover the timeless nature of human experience. This course should also serve to allow students to acquire knowledge and build and analyze connections between various cultures throughout time and space. This discovery will allow students to find modern consequences of world mythology in a global society.

YEARBOOK

0232305	1/2 Credit	Grades 10-12
0232301	1 Credit	Grades 10-12

This course involves student participation in the production of the school yearbook. The course includes the language arts, mathematics, and graphic arts skills involved in such production. **PRE: Completion of application and letters of recommendation RC**

FINE ARTS

Students are given the opportunity to participate in a wide variety of fine arts activities. Curricular programs in art, dance, drama, and music are offered on the elementary, middle, and high school levels and reflect the Fine Arts Learning Outcomes for Maryland.

High school students may select a wide variety of fine arts courses on the introductory through advanced placement levels. Courses present an opportunity for students to exhibit or perform their works in school, county, and statewide exhibits.

Outstanding students in each of the fine arts areas are recognized in All County and All State performances, exhibits, and displays.

Portfolio Evidence and Musicianship Levels:

Within the course descriptions, portfolio evidence indicates that the student will be required to submit documents such as original art works, compositions, recommendations, resumes, photographs, videotapes, or evidence of previous accomplishments.

At the conclusion of 8th grade, the middle school will provide a list of students recommended to waive Foundations of Art with respective high schools.

Musicianship levels for band and orchestra indicate that the student must be able to demonstrate, through audition, Levels I and II performance indicators from the instrumental curriculum.

Advanced Programs:

Honors, Studio, GT, and AP courses are open to students in grades 11 and 12 who demonstrate exceptional ability in the visual and performing arts. These courses provide more in-depth studies in art, dance, music, and drama. An application, interview, audition, or portfolio submission may be requested.

Visual Art Sequence:

Students MUST complete Foundations of Art before continuing on to other courses.

ART
Foundation Level

FOUNDATIONS OF ART

0400401 1 Credit Grades 9-12

This course provides students with a comprehensive background in the arts with emphasis in two- and three-dimensional design. This course is recommended, but not limited, to those who plan to pursue advanced art courses.

CREATIVE CRAFTS

0404005 1/2 Credit Grades 9-12
0404001 1 Credit Grades 9-12

This course helps students develop creative crafts, techniques, and processes which may include fiber arts, stained glass, sculptures, general crafts, and seasonal crafts. (\$25 for materials)

HUMANITIES A

0401305 1/2 Credit Grades 9-12

This course introduces the fine arts through a study of five major disciplines: Visual Arts, Music, Drama, Dance, and History. This course covers the Prehistoric through Renaissance periods.

HUMANITIES B

0401505 1/2 Credit Grades 9-12

This course introduces the fine arts through a study of five major disciplines: Visual Arts, Music, Drama, Dance, and History. Part B covers the Reformation Period to the present.
PRE: *Humanities A*

HUMANITIES

0401401 1 Credit Grades 9-12

This course focuses on explaining the experience of mankind through the fine arts and how the arts play a role in documenting the human experience. This course covers the Prehistoric through Contemporary Periods. (\$15 for project materials)

Level I

DRAWING I

0405005 1/2 Credit Grades 9-12
0405001 1 Credit Grades 9-12

This course introduces students to two-dimensional design and drawing skills. Students explore a variety of drawing tools and materials. Students are also exposed to a knowledge of aesthetics, style, and the history of art related to drawing and design. (\$25 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

2D & GRAPHIC DESIGN I

0408305 1/2 Credit Grades 9-12
0408301 1 Credit Grades 9-12

This course familiarizes students with various graphic and design techniques. Students study materials and processes, which may include linoleum, wood block, silk screen, computer graphics/video (when facilities permit), calligraphy, poster design, commercial package designs, etching, and found object printing. (\$25 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

DRAWING/PAINTING I

0409005 1/2 Credit Grades 9-12
0409001 1 Credit Grades 9-12

This course introduces students to the basic concepts and media used in drawing and painting from observation, imagination, and memory. Students may work in charcoal, pastel, watercolor, acrylic, and tempera. (\$35 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

SCULPTURE & CERAMICS I

0411005 1/2 Credit Grades 9-12
0411001 1 Credit Grades 9-12

This course allows students to explore three-dimensional design through the creation of art works which may include the use of clay, wood, metal, wire, paper, plaster, and other media. This course also includes exposure to aesthetics, style, and history of art related to sculpture and ceramics. (\$25 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

PHOTOGRAPHY I

0412005 1/2 Credit Grades 9-12
0412001 1 Credit Grades 9-12

This course contains a rigorous curriculum which introduces students to the use of specialized photographic equipment including cameras, lenses, and developing processes. Students are expected to demonstrate the ability to produce

acceptable two-dimensional design in the production of photographic themes using 35mm or digital photography. Students may be required to bring in their own 35mm (SLR) camera, paper and film, or a digital camera. (\$25 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

Level II

DRAWING II

0413001 1 Credit Grades 10-12

This course concentrates on the expansion of applications of students' previously learned skills. Students gain exposure to aesthetics and history of art as related to two-dimensional drawing/design. (\$25 for materials) **PRE:** *Drawing I or portfolio evidence*

2D & GRAPHIC DESIGN II

0414301 1 Credit Grades 10-12

This course is a continuation of 2D & Graphic Design I in which students expand upon various graphic and design techniques. Students elaborate upon techniques and processes working with linoleum, wood block, silk screen, computer graphics (where facilities permit), calligraphy, poster design, commercial package designs, etching, and found object printing. (\$25 for materials) **PRE:** *Graphic Design/Photography I or 2D & Graphic Design I*

DRAWING/PAINTING II

0416301 1 Credit Grades 10-12

This course concentrates on the expansion and refinement of skills and techniques previously learned in Drawing/Painting I. (\$25 for materials) **PRE:** *Drawing/Painting I*

SCULPTURE & CERAMICS II

0418401 1 Credit Grades 10 -12

This course concentrates on the expansion and application of the students' skills previously learned in Sculpture & Ceramics I. The course includes an exposure to aesthetics, style, and art history related to sculpture and ceramics. (\$25 for materials) **PRE:** *Sculpture & Ceramics I or portfolio evidence*

PHOTOGRAPHY II

0419401 1 Credit Grades 10-12

This course concentrates on the expansion and application of students' skills previously learned in Photography I. Photographs produced will demonstrate quality two-dimensional design and an understanding of photographic techniques that may include digital design software. This course is more challenging than the introductory level course and contains a rigorous curriculum. Students may be required to bring in their own 35mm (SLR) camera, paper and film, or a digital camera. (\$25 for materials) **PRE:** *Photography I*

Studio Level III

The Studio Level III courses listed below concentrate on the expansion and application of the students' previously learned skills. These are advanced classes with a dominance of self-directed assignments. These courses also provide students with the opportunity to produce work for a portfolio which is usually a prerequisite for art schools. Due to the independent nature of these courses, students register on an individual basis for the existing program with recommendation of the art instructor. (\$25 for materials) **PRE:** *Portfolio evidence RC*

SCULPTURE/CERAMICS

0421005 1/2 Credit Grades 11-12
0421001 1 Credit Grades 11-12

2D & GRAPHIC DESIGN

0472005 1/2 Credit Grades 11-12
0472001 1 Credit Grades 11-12

DRAWING/PAINTING

0423605 1/2 Credit Grades 11-12
0423601 1 Credit Grades 11-12

DRAWING

0424005 1/2 Credit Grades 11-12
0424001 1 Credit Grades 11-12

PHOTOGRAPHY

0431005 1/2 Credit Grades 11-12
0431001 1 Credit Grades 11-12

AP STUDIO ART

0473402 AP 2-D Design 2 Credits Grades 11-12
0473502 AP 3-D Design 2 Credits Grades 11-12
0473702 AP Drawing 2 Credits Grades 11-12

Students choose between one of three portfolios: Drawing, 2-Dimensional Design, or 3-Dimensional Design. To earn a weighted high school credit, students enrolled in AP Studio Art must complete a portfolio following the guidelines set by the College Board. Purchase of some support materials is required. (\$40 plus \$93 for AP exam) **PRE:** *Level II or portfolio evidence*



AP ART HISTORY

0473602 2 Credits Grades 11-12

Students participate in individual research projects and develop college level skills such as outlining, writing about art, and more. This course provides a general survey of Art History from Prehistoric to Contemporary times on a college freshman level. Focus is on different cultures and traditions, and how art changes with them. Lecture, reading, discussion, and multi-media presentation will be used. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.)



PERFORMING ARTS

INTRODUCTION TO DANCE

0440005	1/2 Credit	Grades 9-12
0440001	1 Credit	Grades 9-12

This course introduces dance to students in its many forms and cultures with an emphasis that blends theory with practical application. Creative and structured dance forms are studied.

GIFTED & TALENTED DANCE

0442302	2 Credits	Grades 9-12
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This course is offered to the intermediate/advanced dance student. Students are expected to continue advanced work in a combination of ballet, pointe, jazz, and tap. Classes meet at various designated studios during evenings and weekends. **PRE:** *Portfolio evidence*

HONORS DRAMA I

0443302	2 Credits	Grades 11-12
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This course is for students who have shown talent in the performing arts, either on stage or backstage. Students study theatre history, acting theories, critical analysis, performance/production skills, and improvisation. Students are involved in the development of full-scale theatre productions. Purchase of support materials is optional. This course is held at RSHS and is available to students from each of the high schools. Students earning a B or better in Honors Drama I & II may earn articulated college credit. **PRE:** *Theatre or Theatre Design, portfolio evidence, and committee review*   

HONORS DRAMA II

0444302	2 Credits	Grade 12
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This course runs concurrently with Honors Drama I with an emphasis on directing, designing, acting, acting theories, and technical theatre. Students are involved in the development of full-scale theatre productions. Purchase of support materials is optional. This course is held at RSHS and is available to students from each of the high schools. Students earning a B or better in Honors Drama I & II may earn articulated college credit. **PRE:** *Honors Drama I and committee review*   

THEATRE

0445401	1 Credit	Grades 9-12
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This course introduces students to the basics of theatre with an emphasis on acting and public speaking. Students may study improvisation, mime, theatre history, puppet theatre, oral interpretation, and theatrical analysis. This course emphasizes play and character analysis, scene development, aesthetic criticism, basic directing skills, theatre history, and script memorization.

THEATRE DESIGN

0451001	1 Credit	Grades 10-12
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This course introduces students to the basics of technical the-

atre. The course explores fundamental design and development properties of scenery, lighting, costume, makeup, and sound. Aspects of publicity and theatre history are also included. Students may work on technical and design aspects of a real stage production. (\$15) **PRE:** *Teacher interview* **RC**

MUSIC

BAND

0460405	1/2 Credit	Grades 9-12
0460401	1 Credit	Grades 9-12

This course helps students develop musicianship and an understanding of all aspects of band performance. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Activities include multiple public performances. **PRE:** *Musicianship levels I & II* **RC**

JAZZ ENSEMBLE

0474005	1/2 Credit	Grades 9-12
0474001	1 Credit	Grades 9-12

This course helps students further their musicianship skills. Students study, prepare, and perform compositions representative of 20th century American jazz styles including swing, big band, bebop, cool jazz, fusion, and Latin jazz. Activities include concerts and performances during and beyond the school day. **PRE:** *Audition/Band Director's approval* **RC**

HISTORY OF AMERICAN MUSIC

0462005	1/2 Credit	Grades 9 -12
0462001	1 Credit	Grades 9 -12

This course introduces students to a wide variety of musical styles that have influenced the development of 20th century American music. Using reading, listening, research and multimedia presentations, the course content includes an historical survey of jazz, rhythm and blues, country and western, musical theatre, rock 'n roll, classical, and multi-cultural forms. Students earning a B or better in History of American Music may earn articulated college credit. 

CHORUS

0454005	1/2 Credit	Grades 9-12
0465001	1 Credit	Grades 9-12

This course helps students develop musicianship and an understanding of all aspects of choral production. Performance activities at school or in the community may be included. **RC**

CONCERT CHOIR

0463005	1/2 Credit	Grades 9-12
0463001	1 Credit	Grades 9-12

This course helps students develop musicianship and an understanding of all aspects of choral production. The concert choir performs at school and community concerts, and represents the school at choral activities. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. **PRE:** *Audition/Choir director's approval* **RC**

ADVANCED CHORAL ENSEMBLE

0470005 1/2 Credit Grades 9-12

0470001 1 Credit Grades 9-12

This course is for advanced choral musicians. Through a study of varied choral literature, this course seeks to develop and strengthen the vocal production of the advanced singer in an ensemble setting. Students develop their individual technique with focus on intonation, blend, tone, and diction. Students also study the relationship of music to history and culture. This ensemble performs for school and community concerts. **PRE:** *Audition/Choir director's approval* **RC**

GUITAR I

0466005 1/2 Credit Grades 9-12

0466001 1 Credit Grades 9-12

This course offers students the basics of guitar. Students learn to read standard musical notation and play simple melodies. Students are also taught to accompany folk, traditional, and popular music in a variety of styles using basic chords in major and minor keys. Students must provide their own guitar.

GUITAR II

0475005 1/2 Credit Grades 9-12

0475001 1 Credit Grades 9-12

This course is for advanced guitar students. Through a study of varied guitar literature, this course seeks to develop and strengthen the guitar skills of the advanced guitarist. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Students must provide their own guitar. **PRE:** *Guitar I; students must be able to read and play standard musical notation.* **RC**

MUSIC KEYBOARD I

0467005 1/2 Credit Grades 9-12

0467001 1 Credit Grades 9-12

This course offers students the basics of keyboard music. Students learn to read and play basic chords, note values, and rhythms. Upon completion of Music Keyboard I, students may take Music Keyboard II. Students must provide their own headphones and 1/4" adapter.

MUSIC KEYBOARD II

0471005 1/2 Credit Grades 9-12

0471001 1 Credit Grades 9-12

This course is for advanced keyboard students. Through a study of varied piano literature, this course seeks to develop and strengthen the keyboard skills of the advanced keyboardist. Students earning a B or better in Music Keyboard II may earn articulated college credit. Students must provide their own headphones and 1/4" adapter.

PRE: *Music Keyboard I; students must be able to read and play standard musical notation.* **RC**

BAND FRONT

0468005 1/2 Credit Grades 9-12

0468001 1 Credit Grades 9-12

This course involves non-playing members of the marching band unit. Students perform with various apparatuses including flags, rifles, etc. These elements will be determined by each individual director. **PRE:** *Portfolio evidence* **RC**

STRING ORCHESTRA - NEHS, PHS, & RSHS Only

0469005 1/2 Credit Grades 9-12

0469001 1 Credit Grades 9-12

This course helps students develop musical understanding and skills associated with the study of a string instrument (violin, viola, cello, or bass). Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire for strings or full orchestra both during and after the school day. **PRE:** *Musicianship levels I & II* **RC**

MUSIC THEORY I

0472301 1 Credit Grades 10-12

This course offers musically talented students the opportunity to develop their own musicianship through an understanding of musical elements. Students review music fundamentals and create their own music arrangements and compositions. In order to take Music Theory I, a student must be able to pass a rudimentary music test. Lab fee for workbook and Finale CD-ROM (\$25) **PRE:** *Portfolio evidence*

MUSIC THEORY II

0473301 1 Credit Grades 11-12

This course offers musically talented students the continued opportunity to develop their musical skills with additional training in writing composition, sight singing, and harmony arrangements. Students earning a B or better in Music Theory II may earn articulated college credit. Lab fee for workbook and Finale CD-ROM (\$25) **PRE:** *Portfolio evidence, Music Theory I* 

AP MUSIC THEORY

0472302 2 Credits Grades 11-12

This course enables talented vocal and instrumental students to develop a functional knowledge and understanding of the elements of music fundamentals through reading and writing music. Students develop musicianship and musical insight, and acquire an understanding of aesthetic and technical considerations through performance of original works alone and in ensemble. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. Some support materials may be optional. (AP exam fee is approximately \$93.) **PRE:** *Teacher approval*   

DUAL ENROLLMENT DIGITAL ARTS PROGRAM FOUNDATION TO DIGITAL ARTS

Credits may vary Grade 12

These courses are offered at the Cecil College (CC) Visual Communications Program (North East Campus) utilizing professional studio and lab facilities. Interested students must first meet with their respective school counselor, who will assist with reviewing the Digital Arts Pathway options that qualify for this program (see page 6).

Course credits will vary based on the Digital Arts course selected. This series of courses in Digital Arts can include single or multi-course offerings. This program is intended for the final semester of the senior year. These courses provide an opportunity for students to work at the college level to reach a higher level of aesthetic and technical achievement in the digital arts. Participants may pursue Cecil College Art, VCP, and CIS courses in the following areas: Photography, Movie Making, Digital Imaging (must enroll in both DI I & DI II), Animation, Digital Illustration, Video Production and Web Design, and Modeling and Animation for Graphic Design and Video.

Students must then:

- begin the dual enrollment application process;
- arrange a meeting with Dan Krukosky (410-287-6060 x311), Director of the Visual Communications Program at Cecil College, who will evaluate their background knowledge and skills, recommend/confirm their course selection, and provide the necessary signature/authorization;
- register for the recommended college course; and
- complete the dual enrollment process with their school counselor.

CC application and tuition are required for these courses. Payment arrangements must be made with the college prior to the beginning of the semester. These courses will equate to 3-12 college credits depending on the number of courses taken. **PRE:** *Required senior courses completed during fall semester to allow daytime attendance at Cecil College.* 

NOTE: Special tuition reduction is offered through the College Bound Scholarship Program for the digital arts program dual enrollment courses. Please contact your high school counselor for specific information.

MATHEMATICS

Students must complete a minimum of one (1) mathematics course per year and earn a minimum of four (4) mathematics credits during grades 9-12. One credit must include a course that meets the Maryland College and Career Readiness Standards in both algebra and geometry.

Algebra I and Geometry meet the requirements for the Maryland College and Career Readiness Standards. Incoming 9th grade students may have met one or both of these requirements if they have successfully completed Algebra I and Geometry during the middle school; however, students must still complete one math course per year during high school.

Topics of Mathematics is a course that currently meets the local requirements for graduation, but does not meet the minimum course requirements for college admission by the University System of Maryland.

All students must pass Algebra I, which is a graduation requirement. Incoming 9th grade students may have met this requirement if enrolled in Algebra I in middle school. Students who have not met the Maryland College and Career Readiness Standard by the end of their junior year must select a math course that meets the MSDE transition course requirement during their senior year.

The National Collegiate Athletic Association (NCAA) and some post secondary institutions do not accept high school credits earned while in a middle school. In order to meet NCAA admissions requirements and/or be eligible to participate in college athletics, students must earn three (3) mathematics credits through Algebra II during grades 9 through 12. The NCAA determines the courses for which credit is awarded.

PRE-ALGEBRA

0722401 1 Credit Grades 9-10

This research-based intervention course combines direct algebra instruction with the use of technology to give students the opportunity for success in PARCC Algebra I, which is the next sequential course. Students will focus on instructional, modeled, and independent algebraic experiences.

ALGEBRA I

0722301 1 Credit Grades 9-12

0722311 1 Credit Grades 9-12

This course provides students the foundation skills for future mathematics courses, many careers, and college. This course will help students to view algebra as a theoretical tool for analyzing and describing mathematical relationships. Students will also experience the power of algebraic thinking in a context of applications by studying the mathematical modeling of real-world problems. The course content will include a rigorous approach to solving, graphing, and writing linear, quadratic, and exponential functions. **PARCC**

GEOMETRY

0706301 1 Credit Grades 9-12

0706311 1 Credit Grades 9-12

This course is designed to emphasize the study of the properties and applications of geometric figures in two and three dimensions. It includes the study of transformations, similarity, congruence, constructions, circles, and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. The course also emphasizes solving and applying properties of geometric figures and the relationship between algebra and geometry. **PRE:** *Algebra I*

HONORS GEOMETRY

0721301 1 Credit Grades 9-10

This is a rigorous, college preparatory course for the accelerated mathematics student and is designed to emphasize the study of the properties and applications of geometric figures in two and three dimensions. It includes the study of transformations, similarity, congruence, constructions, circles, and right triangle trigonometry. Students will apply an array of inductive and deductive thinking skills through myriad problem solving situations, and applications to the real world are stressed. The course also emphasizes the use of coordinate geometry to prove relationships while exploring the relationships between algebra and geometry. This course may be taken concurrently with Algebra II or Honors Algebra II. **PRE:** *Algebra I* 

TOPICS OF MATHEMATICS

0718001 1 Credit Grades 11-12

0718011 1 Credit Grades 11-12

This is a course designed for students who may need more time to develop a deep understanding of the underlying algebraic and mathematical concepts before taking Algebra II or Algebra IIA. Once a student has successfully completed Algebra II or Algebra IIB, this course is no longer a viable option. This course is modeled on the transition course for college and career readiness. **PRE:** *Algebra I or Geometry*

ALGEBRA IIA

0709301 1 Credit Grades 10-12

This is a slower-paced course covering the first half of the Algebra II course. This pace allows students more time to explore and understand the critical algebraic concepts for college and careers. Course topics include the relationship between linear, exponential, and quadratic functions. This course meets the requirements of the senior math college and career ready transition course beginning in the 2016-17 school year. **PRE:** *Geometry*

ALGEBRA IIB

0710301 1 Credit Grades 10-12

This is a slower-paced college preparatory course covering the second half of the Algebra II course. This pace allows students more time to explore and understand the critical algebraic concepts for college and careers. Course topics include rational and radical functions, logarithmic functions, trigonometric functions, the unit circle, and statistics. This course meets the requirements of the senior math college and career ready transition course beginning in the 2016-17 school year. **PRE:** *Algebra IIA*

ALGEBRA II

0708301 1 Credit Grades 9-12

This is a rigorous, fast-paced college preparatory course, designed to enhance and enrich students' understanding of Algebra I concepts while focusing on problem solving, reasoning, applications, and communication. Course topics include the relationship between linear, exponential, and quadratic functions, rational and radical functions, logarithmic functions, trigonometric functions, the unit circle, and statistics. **PRE:** *Geometry or Honors Geometry*

HONORS ALGEBRA II

0716001 1 Credit Grades 9-12

This is a rigorous, fast-paced, college preparatory course for the accelerated mathematics student involves the exploration and application of variable quantities, mathematical models, and real world problems. Students will not merely find solutions, but enhance their understanding of the concepts underlying the solutions. Students will also be limited in their calculator usage. Course topics include the relationship between linear, exponential, and quadratic functions; rational and radical functions; logarithmic functions; trigonometric functions; the unit circle; and statistics. **PRE:** *Geometry or Honors Geometry* 

TRIG/FUNCTIONS/STATISTICS

0713301 1 Credit Grades 10-12

This is a rigorous college preparatory course that includes the exploration and application of mathematical concepts. Students develop a deeper understanding of important mathematics, such as linear, exponential, logarithmic, and trigonometric functions; trigonometric identities; and relationships within and among function families. **PRE:** *Algebra II or Honors Algebra II*

HONORS TRIG/FUNCTIONS/STATISTICS

0711401 1 Credit Grades 10-12

This is a rigorous, college preparatory course for the accelerated mathematics student that involves the production and investigation of mathematical models not merely to find solutions, but to enhance their understanding of the concepts underlying the solutions. During this course, students improve their problem-solving skills, critical thinking skills, and reasoning abilities. Students recognize, use, and interpret equivalent representations of the same concept, and communicate mathematical knowledge effectively. In addition, students connect mathematical concepts with other topics, to other disciplines, and to real life as they prepare for success in precalculus and beyond. Course topics include linear, exponential, logarithmic, and trigonometric functions; trigonometric identities; and relationships within and among function families. **PRE:** *Algebra II or Honors Algebra II* 

PRE-CALCULUS

0714301 1 Credit Grades 10-12

This is a rigorous, college preparatory course for motivated mathematics students. Students explore applications and deeper understanding of important mathematics, such as rational functions, systems of equations, applications of matrices, series and sequences, conic sections, limits, and derivatives. **PRE:** *Trig/Functions/Statistics*

HONORS PRE-CALCULUS

0712401 1 Credit Grades 10-12

This is a rigorous, college preparatory course for the accelerated mathematics student that involves the production and investigation of mathematical models, or case studies, of real world problems. Students will use these models not merely to find solutions, but to enhance their understanding of the

••• COURSE DESCRIPTIONS •••

concepts underlying the solutions. During this course, students improve their problem-solving skills, critical thinking skills, and reasoning abilities. Students recognize, use, and interpret equivalent representations of the same concept, and they communicate mathematical knowledge effectively. In addition, students connect mathematical concepts with other topics, to other disciplines, and to real life as they prepare for success in calculus and beyond. Course topics include rational functions, systems of equations, applications of matrices, series and sequences, conic sections, limits, and derivatives. Students often take this course in the spring semester after successfully completing Honors Trig/Functions/Statistics in the fall semester. **PRE:** *Completion of or concurrent enrollment in Honors Trig/Functions/Statistics* 

CALCULUS

0715301 1 Credit Grades 11-12
0720001 1 Credit Grades 11-12

This is a rigorous, college preparatory course for motivated mathematics students. The course helps students understand change geometrically, visually, analytically, and verbally. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Course topics include limits, differentiation, integration, and applications. **PRE:** *Pre-Calculus or Honors Pre-Calculus.*

AP CALCULUS AB

0741302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP exam and further studies in science, engineering, and mathematics. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Pre-Calculus or Honors Pre-Calculus.*  

AP CALCULUS BC

0743302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. In AP Calculus BC, students continue their exploration of the calculus of

functions of a single variable. AP Calculus BC includes specifications for two calculus courses and includes all topics taught in Calculus AB plus additional topics, such as differential equations, Taylor Series, parametric functions, and polar functions. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **REC:** *AP Calculus AB* 

STATISTICS

0720001 1 Credit Grades 10-12

This is a college preparatory course that introduces students to the study of measures of central tendency, measures of variation, graphical representation of data, least squares regression, correlation probability, probability distributions, sampling techniques, parameter estimation, and hypothesis testing. The emphasis is on applications from a variety of sources including newspapers, periodicals, journals, and many of the disciplines that students may encounter. Students shall be expected to gather and analyze data, and formally report the results of their research. The use of technology is integrated throughout the course. This course may be taken immediately after Algebra II or it may be taken after any of the courses following Algebra II, including Calculus. **PRE:** *Algebra II or Algebra IIB.*

AP STATISTICS

0745302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes, which are exploring data, sampling, experimentation, anticipating patterns, and statistical inference. This course may be taken immediately after Algebra II or it may be taken after any of the courses following Algebra II, including Calculus. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Algebra II or Honors Algebra II.*  

PHYSICAL EDUCATION & HEALTH EDUCATION

AEROBIC CONDITIONING

0804005 1/2 Credit Grades 10-12

This course involves such activities as aerobic dance, step aerobics, and a variety of new and exciting aerobic activities. This program improves the student's level of cardiovascular fitness, muscular endurance, flexibility, and body composition. Students are given opportunities to design and practice their own routines and programs. **PRE:** *Personal Fitness RC*

CONTEMPORARY HEALTH ISSUES

0898005 1/2 Credit Grades 10-12

This course helps students evaluate and process current health information, and make informed decisions about health behavior. A unit on Family Life and Human Development is included in this course. **PRE:** *Health Education II*

FITNESS WALKING

0805005 1/2 Credit Grades 10-12

This course involves a regular program of aerobic activity involving walking/running/jogging. Students learn the principles of pacing, interval training, speed development, injury prevention, and plyometrics. This is augmented by flexibility, muscle strength, and endurance activities two days per week. Students design an individual fitness program which allows them to reach their personal goals. **PRE:** *Personal Fitness RC*

HEALTH EDUCATION I

0803305 1/2 Credit Grades 9-10

This course provides basic instruction in self-esteem, health care products and resources, promotion of safe living, human growth and development, and disease and drug prevention. This course and successful completion of the service learning project contained in it are requirements for graduation.

HEALTH EDUCATION II

0804305 1/2 Credit Grades 10-12

Community health is the focus of this course. Students apply the knowledge gained from Health Education I to develop an understanding of major health concepts and issues in their surroundings. Topics covered include: nutrition, growth & development, consumer health, environmental health, injury prevention, and disease prevention. This course is a requirement for graduation.

PRE: *Health Education I*

LIFETIME ACTIVITIES/SELF-AWARENESS

0802305 1/2 Credit Grades 11, 12

0802301 1 Credit Grades 11, 12

This course is designed to increase the ability and skill of students to recognize and respond appropriately to situations which may be threatening or harmful to their well-being. Numerous activities which lead to promoting and maintaining lifetime fitness are also explored. Throughout the course, students learn to transfer the bio-mechanical principles of movement to different situations and to a variety of lifetime activities. Students determine the types of exercises and activities that they will use to remain physically active and healthy throughout their lives. All students have the opportunity to participate in self-awareness simulations. Various lifetime activities in this course may include: tennis, golf, bowling, soccer, table tennis, volleyball, roller-blading, etc. **PRE:** *One (1) full credit earned in Physical Education, including Personal Fitness RC*

PERSONAL FITNESS

0800005 1/2 Credit Grade 9

This course engages students in classroom and lab activities to assess and improve individual fitness levels, to establish habits of a wellness lifestyle, and to develop a personal fitness program based on the principles of health-related fitness. This course is a requirement for graduation.

PHYSICAL EDUCATION 10

0801005 1/2 Credit Grade 10

This course helps students apply personal fitness concepts through a variety of exercise programs and activities including fitness based games and circuit training. Students will also create and play health enhancing games of their own design. **PRE:** *Personal Fitness (NO REPEAT CREDIT)*

STRENGTH & CONDITIONING

0807005 1/2 Credit Grades 10-12

0807001 1 Credit Grades 10-12

This course provides an introduction to resistance activities emphasizing weight training. Students participate in and design programs to improve muscular strength and endurance. Students are also involved in activities to improve cardiovascular fitness and flexibility.

PRE: *Personal Fitness RC*

PROJECT LEAD THE WAY®

BIOMEDICAL SCIENCES

The biomedical sciences comprise one of the largest industries in the U.S. employing more than 15 million people. This field includes biomedical engineering, research, facilities design and management, environmental health and safety, health information management and analysis, public policy affecting health care delivery, finance, regulation, and community services.

Understanding the role of biomedical sciences, as well as preparing for a career in this rapidly growing field, requires a broad foundation in science and mathematics. Specialized knowledge is increasingly essential in such areas as genetics, biochemistry, microbiology, physiology, and public health. In addition, an awareness of the social, legal, and ethical issues surrounding technological advances related to the biomedical sciences is critical.

This program will engage students in rigorous academic and technical training, improve readiness for college, and increase preparedness for completing a post-secondary degree and selecting a career in the biomedical sciences.

PRINCIPLES OF BIOMEDICAL SCIENCES

0115001 1 Credit Grades 9-11

This course provides an introduction to the biomedical sciences through exciting “hands-on” projects and problems. Student work involves the study of human medicine, research processes, and an introduction to bioinformatics. Students investigate the human body systems and various health conditions. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

HUMAN BODY SYSTEMS

0116001 1 Credit Grades 10-11

The human body is a complex system requiring care and maintenance. This course engages students in the study of basic human physiology, especially in relationship to human health. Students use a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students use LabView® software to design and build systems to monitor body functions.

PRE: *Principles of Biomedical Sciences*

MEDICAL INTERVENTION

0117001 1 Credit Grades 11-12

This is the concentrator course for the PLTW--Biomedical Science CTE completer program. Medical practice includes interventions to support humans in treating disease and maintaining health. Student projects investigate various medical interventions that extend and improve quality of life including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3-D imaging software and current scientific research, students design and build a model of a therapeutic protein. PRE: *Human Body Systems*

HONORS BIOMEDICAL INNOVATIONS™

0118001 1 Credit Grades 11-12

In this capstone course, students design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. They may work with a mentor or advisor from a university, hospital, physician’s office, or industry as they complete their work. Students are expected to present the results of their work to an audience, which may include representatives from the local healthcare, business community, or the school’s PLTW® partnership team.

PRE: *Medical Intervention*  

PRE-ENGINEERING

College credit from Rochester Institute of Technology may be earned for each pre-engineering course listed based on student eligibility (www.rit.edu/emcs/pltw/students-parents).

INTRODUCTION TO ENGINEERING DESIGN

0153301 1 Credit Grades 9-12

This course develops problem solving skills, with an emphasis on 3-D modeling or solid rendering of an object. Students focus on the application of visualization processes and tools using the Inventor software. The course emphasizes the design-development process of a product and how a model of that product is produced, analyzed, and evaluated using a Computer-Aided Design System. Various design applications are explored with discussion of possible career opportunities. PRE: *Algebra I (or equivalent)* **TE**

PRINCIPLES OF ENGINEERING

0152301 1 Credit Grades 9-12

0152311 1 Credit Grades 9-12

This course introduces students to the exciting world of engineering. Students explore how the principles of engineering are used to develop better and safer products and structures. Theoretical and hands-on problem solving and career possibilities are emphasized. PRE: *Algebra I (or equivalent), Introduction to Engineering Design*

CIVIL ENGINEERING & ARCHITECTURE

0154301 1 Credit Grades 10-12

This course provides an overview of the fields of civil engineering and architecture while emphasizing the inter-relationship and dependence of both fields. Students use state-of-the-art software to solve real-world problems and communicate solutions to hands-on projects and activities. This course covers topics such as the roles of civil engineers and architects, project planning, site planning, and building design. PRE: *Introduction to Engineering Design, Principles of Engineering*

DIGITAL ELECTRONICS

0156301 1 Credit Grades 10-12

This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. Students study the application of electronic logic circuits and devices, and apply Boolean logic to the solution of problems. Using Circuit Maker, the industry standard, students test and analyze simple and complex digital circuitry. Students design circuits, export their designs to a printed circuit auto routing program that generates printed circuit boards, and construct the design using chips and other components. PRE: *Geometry and completion of or concurrent enrollment in Introduction to Engineering Design, Principles of Engineering, and Civil Engineering & Architecture*

HONORS ENGINEERING DESIGN & DEVELOPMENT

0157301

1 Credit

Grade 12

This course enables students to apply what they have learned in academic and pre-engineering courses as they complete a challenging self-directed project. Students work in teams to design and build solutions to authentic engineering problems. An engineer from the school's partnership team mentors each student team. At the end of the course, teams present their research paper and defend their projects to a panel of engineers, business leaders, and engineering college educators for professional review and feedback. This course equips students with the independent study skills that they will need in post-secondary education, and careers in engineering and engineering technology. **PRE:** *Introduction to Engineering Design, Principles of Engineering, Digital Electronics, and Civil Engineering & Architecture*



PROSTART®

The ProStart® program, administered by the National Restaurant Association Educational Foundation (NRAEF), is a nationwide system of high school restaurant and food service courses linked with mentored worksite experiences. The program is comprised of state-driven industry and educational partnerships throughout the country and exists as the national umbrella organization for restaurant and food service career education. Students who enter this program are expected to complete the following course sequence: Becoming a Food Service Professional I, Becoming a Food Service Professional II, and Practical Experience as a Food Service Professional. Upon successful completion of these courses, students are required to take the ProStart® certification exams.

BECOMING A FOOD SERVICE PROFESSIONAL I

0171001

1 Credit

Grades 10-12

This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling, and preparation techniques. Students learn to prepare a variety of foods. They develop a broad understanding of the variety of career options available in the food service and hospitality industry. Students can accrue up to 150 hours toward the 400 hour work-based learning experience requirement by either volunteering outside of school at a food service related business or by preparing food during class time as a service for the community. All students enrolled in

this course must take the National Restaurant Association Educational Foundation end-of-course exam level I (approximately \$20). Students earning a B or higher in Becoming a Food Service Professional I & II and Practical Experience as a Food Service Professional may receive articulated college credit. **L/C**

BECOMING A FOOD SERVICE PROFESSIONAL II

0171501

1 Credit

Grades 10-12

Students in this course continue to prepare a variety of foods. They create menus, demonstrate various types of restaurant service, apply purchasing techniques, and demonstrate an understanding of inventory monitoring and control. Students have the opportunity for an authentic, mentored work-based learning experience. Students can accrue up to 150 hours toward the 400 hour work-based learning experience requirement either by volunteering outside of school at a food service related business or by preparing food during class time as a service for the community. All students enrolled in this course must take the National Restaurant Association Educational Foundation end-of-course exam level II (approximately \$20). Students earning a B or higher in Becoming a Food Service Professional I & II and Practical Experience as a Food Service Professional may receive articulated college credit. **PRE:** *Becoming a Food Service Professional I*

L/C

PRACTICAL EXPERIENCE AS A FOOD SERVICE PROFESSIONAL

0175101

1 Credit

Grade 12

0175102

2 Credits

Grade 12

This course provides students the opportunity to further refine and apply skills that support all aspects of the hospitality industry. Students will apply these skills in paid or unpaid internships with local businesses. Students must complete a minimum of 400 hours during their internship. Students may have obtained up to 300 hours during Becoming a Food Service Professional I & II. Students will receive a letter grade for this course based upon the number of weekly hours completed, weekly reflection journals, and monthly evaluations from the employer. Students earning a B or higher in Becoming a Food Service Professional I & II and Practical Experience as a Food Service Professional may receive articulated college credit. **PRE:** *Becoming a Food Service*

Professional I & II



SCIENCE

Students are required to earn three (3) credits in lab sciences, including biology, in order to graduate. Students interested in science-based careers are recommended to take additional science courses and/or participate in the Science, Technology, Engineering, and Mathematics (STEM) Academy.

All courses except Principles of Physics I meet the University System of Maryland science requirement.

EARTH SCIENCE

0902301 1 Credit Grades 9-12

In this course, students must demonstrate the ability to use scientific skills and processes to explain the physical and chemical interactions of the environment, earth, and universe that occur over time. Major topics studied include astronomy, geology, meteorology, and oceanography.

HONORS EARTH SCIENCE

0904301 1 Credit Grades 9-12

In this course, students must demonstrate the ability to use scientific skills and processes to explain the physical and chemical interactions of the environment, earth, and universe that occur over time. Major topics studied include astronomy, geology, meteorology, and oceanography. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigations, ways of thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. 

ENVIRONMENTAL SCIENCE

0911301 1 Credit Grades 9-12
0911311 1 Credit Grades 9-12

This course is designed to make students more aware of their environment and the impact they have on it. Basic concepts and principles related to ecology and conservation are emphasized.

HONORS ENVIRONMENTAL SCIENCE

0912301 1 Credit Grades 9-12

This course is designed to make students more aware of their environment and the impact they have on it. Basic concepts and principles related to ecology and conservation are emphasized. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigations, ways of thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. 

AP ENVIRONMENTAL SCIENCE

0933302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. At least seven to ten hours per week of outside class preparation is expected. The following themes provide a foundation for the structure of this course: Earth Systems; Ecosystems; Populations; Land and Water Use; Energy Resources; Pollution; Environmental Problems and Human Survival. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** 2 years of high school laboratory science  

BIOLOGY

0905301 1 Credit Grades 10-12
0905311 1 Credit Grades 10-12

In this course, students demonstrate their ability to use scientific skills and processes, as well as major biological concepts, to explain the uniqueness and interdependence of living organisms, their interactions with the environment, and the continuation of life on earth. Major topics studied include the chemistry of life, cell structure and processes, genetics, change over time, and ecology. One (1) credit in biology is required for graduation. **HSA**

HONORS BIOLOGY

0906301 1 Credit Grades 9-12

In this course, students demonstrate their ability to use scientific skills and processes, as well as major biological concepts, to explain the uniqueness and interdependence of living organisms, their interactions with the environment, and the continuation of life on earth. Major topics studied include the chemistry of life, cell structure and processes, genetics, change over time, and ecology. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigations, the ways of thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. One (1) credit in biology is required for graduation.  **HSA**

AP BIOLOGY

0930302 2 Credits Grades 10-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. Seven to ten hours a week in out-of-class preparation is expected. Major topics presented include: biological chemistry, molecules and cells, genetics and evolution, and organisms and populations. To earn a weighted high school credit, students enrolled in an AP course must

take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Biology or Honors Biology, Chemistry or Honors Chemistry, and Algebra II or Honors Algebra II*  

CHEMISTRY

0907301 1 Credit Grades 10-12

In this course, students demonstrate their ability to use scientific skills and processes to explore matter, its properties and structure, and changes that can occur in its structure and composition. Laboratory investigations are a vital part of this course. **PRE:** *Geometry (or equivalent)*

HONORS CHEMISTRY

0908301 1 Credit Grades 9-12

In this course, students demonstrate their ability to use scientific skills and processes to explore matter, its properties and structure, and changes that can occur in its structure and composition. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigation, ways of practical thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Algebra IIB or Honors Algebra II* 

AP CHEMISTRY

0931302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. At least seven to ten hours per week of outside class preparation is expected. Major topics presented include structure of matter, states of matter, chemical reactions and stoichiometry, chemical equilibrium and kinetics, and thermodynamics. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Chemistry or Honors Chemistry*



PRINCIPLES OF PHYSICS I

0909301 1 Credit Grades 11-12

In this course, students use the skills and processes of science to investigate basic physics topics. Concepts are introduced and developed using a hands-on approach through the exploration of day-to-day real-life situations. Topics studied include forces, motion, sound, and light. This course and the completion of Principles of Physics II are required to meet the University System of Maryland requirement for a lab science. **PRE:** *Algebra I (or equivalent)*

PRINCIPLES OF PHYSICS II

0920001 1 Credit Grades 11-12

This course is a continuation of Principles of Physics I. Topics studied include energy, heat, electricity, magnetism, and nuclear physics. Completion of Principles of Physics II meets the University System of Maryland requirements for a lab science. **PRE:** *Algebra I (or equivalent) and Principles of Physics I*

PHYSICS

0910301 1 Credit Grades 10-12

In this course, students demonstrate their ability to use scientific skills and processes to explain the interaction of matter and energy, and the energy transformations that occur. Major topics studied include forces, motion, waves, sound, light, electricity, and magnetism. Laboratory investigations are a vital part of this course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Honors Algebra II or Algebra IIB*

HONORS PHYSICS

0910601 1 Credit Grades 10-12

In this course, students demonstrate their ability to use scientific skills and processes to explain the interaction of matter and energy, and the energy transformations that occur. Major topics studied include forces, motion, waves, sound, light, electricity, and magnetism. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigation, ways of practical thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are necessary for success in this course. **PRE:** *Completion of or concurrent enrollment in Trig/Func/Statistics or Honors Trig/Func/Statistics* 

AP PHYSICS 1

0935302 2 Credits Grades 11-12

This course is an Algebra-based, introductory level college physics course that explores Newtonian mechanics; rotational motion; work, energy, power; wave mechanics; and simple electric circuits. Through inquiry based learning, students will develop critical thinking and reasoning skills. No prerequisite course work in physics is required to take this course. A college-level textbook and materials are used, and the course includes a rigorous laboratory component. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Geometry (or equivalent)*  

AP PHYSICS 2

0936302 2 Credits Grades 11-12

This course is algebra-based, introductory level college physics course that explores fluid dynamics, thermodynamics, PV

COURSE DESCRIPTIONS

diagrams and probability, electrostatics, electric circuits with capacitors, electromagnetism, optics, quantum physics, atomic physics, and nuclear physics. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. No prerequisite work in physics is required to take this course. A college-level textbook and materials are used, and the course includes a rigorous laboratory component. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Geometry (or equivalent)*  

AP PHYSICS "C"

0934302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. Extensive outside of class preparation is expected to meet the demands of this course. The course concentrates the study of mechanics using principles of calculus. This course provides instruction in the following areas: kinematics; Newton's laws of motion; dynamics; work, energy and power; momentum; circular motion and rotation; gravitation and oscillation. This course will develop critical thinking skills and use introductory differential and integral calculus. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. The course is geared towards the Physics C exam. (AP exam fee is approximately \$93.) **PRE:** *Physics or Honors Physics and Trig/Functions/Statistics, Honors Trig/Functions/Statistics or Honors Pre-Calculus or Pre-Calculus*



ANATOMY & PHYSIOLOGY

0901301 1 Credit Grades 11-12

In this course, students demonstrate their ability to use scientific skills and processes to explore the structural and functional organization of the human organism. Initial emphasis will be on the concepts of homeostasis and levels of organization. This is followed by a study of the human organ systems. **PRE:** *Biology or Honors Biology and Chemistry or Honors Chemistry*

ROBOTICS

0935001 1 Credit Grades 11-12

The objective of this course is to use a hands-on approach to introduce students to basic robotics concepts and applications. Heavy emphasis will be placed on the utilization of the engineering design process. Students will work in teams to build and program LEGO and TETRIX-based robots that will accomplish increasingly complex tasks. Throughout the process, students will learn about sensors,

different types of gears and gear ratios, electric motors, and DC circuits. Students will also create a robotic arm and a variety of extension lifts. Computer programming will be done using LabVIEW and/or Robot C. **PRE:** *Completion of or concurrent enrollment in Honors Trig/Functions/Stats and Honors Physics.*

ZOOLOGY

0912601 1 Credit Grades 11-12

Zoology is the study of the animal kingdom. The focus of study is on the internal and external anatomy of representative specimens of the major animal phyla. An understanding of how animals have adapted to various systems to meet survival needs is developed. **PRE:** *Biology or Honors Biology*

HONORS RESEARCH AND DESIGN/CAPSTONE

0919101 1 Credit Grades 11-12

This course is designed to give the STEM Academy student the opportunity to learn and apply the basics of experimental design. Students conceive of, design, and complete an authentic project using scientific inquiry and/or the engineering design process. Emphasis is placed on safety issues, research protocols, controlling and manipulating variables, data analysis, and an interpretation of the data through visual and written communication. Students will develop their skills in technical reading and writing; mathematical and statistical aspects of data analysis; and the engineering design process. The student will communicate their findings from the research project to business and community leaders, educators, and experts from STEM related businesses. Successful completion of this course is required for STEM students. **PRE:** *Honors Biology and Honors Chemistry, and Honors Trigonometry/Functions/Statistics* **REQ:** *Identification as a current STEM Academy student.* 

SERVICE LEARNING

See "Service Learning Requirement" on page 23 of this guide or contact your school counselor for more information regarding this requirement.

SERVICE LEARNING

0560305 1/2 Credit Grades 11-12

0560301 1 Credit Grades 11-12

This program provides the opportunity to earn elective credit while working on an approved service learning activity. Students receive classroom instruction focusing on interpersonal communication skills, advocacy programs, social opportunities, time management skills, and career exploration. Students select a site(s) and complete their service learning requirement in a direct service model. Satisfactory service completed in this program fulfills the service learning graduation requirement. Students are encouraged to earn meritorious service hours in their communities upon completion of the graduation requirement. Only one (1) service learning credit may be earned per year in the junior and senior year.

P/F RC



SOCIAL STUDIES

Students must complete a minimum of one (1) social studies course per year and earn a minimum of four (4) social studies credits during grades 9-12. In addition to the state required courses of government, world history, and US History, all students must successfully complete a course in Contemporary World Studies, AP United States Government and Politics, AP Psychology, or AP Human Geography that will be offered to students as a fourth social studies requirement.

The following courses are electives and do not meet the University System of Maryland social studies admission requirements: Psychology and AP Psychology.

GOVERNMENT

1000301	1 Credit	Grade 9
1000311	1 Credit	Grade 9

This course provides students with the understandings necessary for active citizenship in a culturally diverse democratic society. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the historical foundations of United States government, its institutions, functions, responsibilities, and impact on citizens. Students also understand the role and responsibilities of citizenship toward ensuring the continuation of the American way of life. In addition, students are introduced to the concept of world interdependence and the influence of our nation in world affairs. All students must complete a research project in this course.

HSA

HONORS GOVERNMENT

1001301	1 Credit	Grade 9
1001311	1 Credit	Grade 9

This course includes all the skills and understandings included in Government; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements may occur. All students must complete a research project in this course. 

HSA

AP UNITED STATES GOVERNMENT AND POLITICS

1020002	2 Credits	Grades 11-12
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This course provides college-level instruction in a high school setting. In this political science course, students will demonstrate an understanding of the underpinnings of democracy; political beliefs and behaviors; political parties and interest groups; institutions of governments; public policy and civil liberties. Through inquiry, students will read extensively from primary and secondary source documents and practice technical writing to prepare for the AP exam. Outside class reading and writing assignments with follow up requirements may occur. To earn a

weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) All students must complete a written research project in this course.



WORLD HISTORY

1002301	1 Credit	Grade 10
1002311	1 Credit	Grade 10

This course provides students with an understanding and appreciation for the historical development of world societies beginning with the Renaissance period to the modern era. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the intellectual, cultural, economic, and geopolitical trends that have influenced the modern world. Cultural geography and multinational interdependence are primary focal points of this course along with the historical perspectives of each era studied. All students must complete a research project in this course.

HONORS WORLD HISTORY

1003301	1 Credit	Grade 10
1003311	1 Credit	Grade 10

This course provides the same skills and understandings included in World History; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements may occur. All students must complete a written research project in this course. 

UNITED STATES HISTORY

1004301	1 Credit	Grade 11
1004311	1 Credit	Grade 11

This course introduces students to the history of the United States beginning with the Post-Reconstruction period to the present. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the political, economic, social, geographic, and cultural developments that helped the United States become a world leader. All students must complete a research project in this course.

HONORS UNITED STATES HISTORY

1005301	1 Credit	Grade 11
1005311	1 Credit	Grade 11

This course provides the same skills and understandings included in United States History. However, through more rigorous instruction, students are expected to read and write extensively with a higher degree of independence. Outside class reading and writing assignments with follow up requirements may occur. All students must complete a written research project. **REC:** *Honors Government or Honors World History* 

••• COURSE DESCRIPTIONS •••

••• COURSE DESCRIPTIONS •••

AP UNITED STATES HISTORY

1021302 2 Credits Grades 11-12

Students study the full scope of American history beginning with its discovery in 1492 through the present day. Students study the political, economic, social, geographic, and cultural developments that helped the United States become a world leader. Through inquiry, students read extensively from primary source documents and practice technical writing to prepare for the AP U.S. History exam. Students will also participate in the National History Day. Outside class reading and writing assignments with follow up requirements may occur. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) All students must complete a written research project in this course. **REC:** *Honors Government or Honors World History*  

CONTEMPORARY WORLD STUDIES

1006301 1 Credit Grades 11-12
1006311 1 Credit Grades 11-12

Students will use an inquiry approach through extensive reading of source documents and technical writing to study to gain an understanding and respect for the values, customs, and views of world cultures in order to better appreciate America's role as a world leader and how global events impact the citizens of the United States. Using a hybrid format of online learning and face-to-face instruction, students will complete various class assignments using technology in the classroom. All students will complete multiple research projects.

AP HUMAN GEOGRAPHY

1010002 2 Credits Grades 11-12

This course provides college-level instruction in a high school setting. Human Geography is the study of where humans and their activities and institutions such as ethnic groups, cities, and industries are located and why they are there. By analyzing geography, population, cultural patterns, organization of space, land use, industrial and economic development students will gain a better understanding of the world they live in. Through inquiry, students will read extensively from primary and secondary source documents and practice technical writing to prepare for the AP exam. Outside class reading and writing assignments with follow up requirements may occur. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) All students must complete a written research project in this course.



PSYCHOLOGY

1009701 1 Credit Grades 11-12
1009711 1 Credit Grades 11-12

Using an inquiry approach to learning, students learn about the biological, sociological, environmental, and cultural influences on human behavior. Understanding that human behavior is a combination of many factors, students are able to understand and cope with the many frustrations, conflicts, and problems associated with living in a modern society.

AP PSYCHOLOGY

1024302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. Using an inquiry approach to learning, students are introduced to the methods psychologists use when studying the behavior of humans and animals. Facts, principles, and phenomena of each major sub-field within psychology are explored. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) Purchase of support materials is optional. **REC:** *Previous successful completion of other Honors or AP courses in social studies*  

HUMAN GROWTH & DEVELOPMENT

0162301 1 Credit Grades 10-12
0162311 1 Credit Grades 10-12

This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, and psycho-social development; the effect of heredity and the environment; the role of caregivers and the family, health, and safety concerns; and contemporary issues. Students explore special challenges to growth and development. Students have opportunities for guided observations of children from birth through adolescence in a variety of settings to help them better understand theories of human development. Students begin to develop the components of a working portfolio to be assembled upon completion of the internship.

SUPPORT SERVICES

ACADEMIC ASSISTANCE

1160005 1/2 Credit Grades 9-12
1160001 1 Credit Grades 9-12

These classes provide essential learning strategies and study skills support for students who may or may not be working toward a diploma. Assistance related to the content materials in the student's academic schedule is provided. The goals and hours of service are determined on an individual basis.

RC

LEARNING FOR INDEPENDENCE

1130000 0 Credit

This course provides students ages 18-21, working towards a Certificate of Completion by following alternate outcomes, the opportunity to develop a range of skills that will lead to supported community-based employment and life skills necessary to function independently in the community. The program provides opportunities for students to apply independent skills within functional academics, community, vocational, independent arts, and consumer math. Course is currently offered in age appropriate setting. **P/F RC**

TRANSITIONAL ENGLISH

1130100 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Certificate of Completion, instruction in vocabulary, reading comprehension, and writing within real-world applications. Students will read and comprehend a variety of texts related to personal management, community, recreation/leisure, career vocational, and communication/decision-making/interpersonal skill development. Focus will be on aligning the reading targets to the student's individual Transition Plan. **P/F RC**

TRANSITIONAL MATH

1130200 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Certificate of Completion, instruction in money management, time management, classification and measurement skill development within real-world applications. Students will solve mathematical problems in daily life situations related to personal management, community, recreation/leisure, career vocational, and communication/decision-making/interpersonal skill development. Focus will be on aligning the math targets to the student's individual Transition Plan. **P/F RC**

TRANSITIONAL SCIENCE

1130300 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Certificate of Completion, instruction in healthy life choices, such as proper nutrition and personal hygiene, family life issues, and following proper safety guidelines throughout daily activities within real-world applications. Students will solve problems in daily life situations related to personal management, community, recreation/leisure, career vocational, and communication/decision-making/interpersonal skill development. Focus will be on aligning the science related targets to the student's individual Transition Plan. **P/F RC**

TRANSITIONAL CAREER READINESS

1130400 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Certificate of Completion, instruction in the necessary skills required to be successful in the work setting. Instructional activities and work experiences are conducted within the school, community, and/or work environment. Students will explore potential employment opportunities as outlined in their Transition Plan within the IEP. Employability skill development in personal management, community, recreation/leisure, career vocational, and communication/decision-making/interpersonal skills will be addressed through real-life situations. **P/F RC**

INDIVIDUALIZED TRADE OPPORTUNITY - CCST Only

1150001 ITO Auto 1 Credit Grades 11, 12

1150002 ITO Auto 2 Credits Grades 11, 12

1151001 ITO Constr 1 Credit Grades 11, 12

1151002 ITO Constr 2 Credits Grades 11, 12

1153001 ITO Fire 1 Credit Grades 11, 12

1153002 ITO Fire 2 Credits Grades 11, 12

1154001 ITO Natres 1 Credit Grades 11, 12

1154002 ITO Natres 2 Credits Grades 11, 12

This course provides 11th and 12th grade students, earning a Certificate of Completion by following alternative outcomes, an opportunity to achieve selected modified competencies in four program areas. ITO allows students to gain specific trade skill experiences through inclusion in one of the following programs: Automotive Technology, Construction Trades, Fire Science, and Natural Resources. (Uniform fee varies based on program.) **P/F RC**

STUDENT TRANSITION & EMPLOYABILITY PROGRAM (STEP) - CCST Only

1130102 2 Credits Grades 11-12

The Student Transition and Employability Program provides selected students with an opportunity to develop a range of employability skills within school-based work settings. These skills include self-awareness, career awareness, career exploration, career preparation, job seeking and advancement, and career satisfaction. **P/F RC**

TECHNOLOGY EDUCATION

FOUNDATIONS OF TECHNOLOGY

0140005	1/2 Credit	Grades 9-12
0140001	1 Credit	Grades 9-12

This course explores the application of technical knowledge, tools, and skills needed to solve practical problems. Instruction is centered on problem solving and hands-on activities in the areas of construction, manufacturing, communication, biotechnology, power and energy, and transportation. **TE**

INTRODUCTION TO DESIGN & PRESENTATION

0141005	1/2 Credit	Grades 9-12
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This course allows students to develop skills and techniques necessary to prepare graphic materials for effective communications and presentations. Students are introduced to design principles, electronic media, and digital print communications. Emphasis is also placed on oral presentation techniques. Basic keyboarding skills are also emphasized. **TE**

DESIGN & CADD TECHNOLOGY I

0148301	1 Credit	Grades 10-12
0148311	1 Credit	Grades 10-12

Students learn and apply Computer Aided Design and Drafting (CADD) skills to architecture and/or engineering. Students work on individual as well as group projects. The course does not require previous knowledge of computers or drafting. Students earning a grade of B or higher in CADD Technology I & II may receive articulated college credit. **AT**

DESIGN & CADD TECHNOLOGY II

0150301	1 Credit	Grades 10-12
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Students work with more complex CADD skills and apply them to solving difficult problems in both individual and group settings. Students use advanced CADD skills in wire frame and solid modeling. Students earning a grade of B or higher in CADD Technology I & II may receive articulated college credit. **PRE: CADD Technology I** **AT** 

ENERGY & POWER/TRANSPORTATION TECHNOLOGY

0176001	1 Credit	Grades 10-12
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This course introduces students to different types of energy forms, how energy can be transformed into power, and the different modes of transportation. Students learn how these systems work including the issues and impacts of these technologies. Most of the activities in this course are problem-based.

Students design, construct, and test many prototypes related to transportation technologies. **PRE: Earned one (1) technology education credit for graduation.** **AT**

CONSTRUCTION/MANUFACTURING TECHNOLOGY

0177001	1 Credit	Grades 10-12
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This course introduces students to construction and manufacturing careers. Students learn how technological advances of construction and manufacturing have affected society both positively and negatively. Most of the activities in this class are problem-based. Students incorporate mathematics and science concepts to design, construct, and test. **PRE: Earned one (1) technology education credit for graduation.** **AT**

WORK-BASED LEARNING

CAREER RESEARCH & DEVELOPMENT

0122001	1 Credit	Grades 11-12
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This course teaches students self-awareness, career exploration, and setting academic and career-related goals. Students gain an understanding of how accurate, current, and unbiased career information is necessary for successful career planning and management, and are introduced to basic concepts of financial literacy. Course content integrates the development of their competency in business writing, as well as communication, interpersonal, technology, and critical thinking skills. Students are required to prepare for and participate in the interview process. Students begin to develop a portfolio and contribute to it throughout the program. Teachers continuously review and assist in the development of the portfolio as part of individual course and end of program assessments. Students review their high school plan as part of the career development process to make appropriate adjustments.

CAREER DEVELOPMENT SEMINAR

0123001	1 Credit	Grades 11-12
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Students in this course continue building and strengthening their career portfolio to demonstrate proficiencies in workplace readiness, personal financial management, personal growth and development, and employment experiences. Students use the portfolio as part of the interview process. The portfolio serves as part of the student's end-of-program assessment/culminating project. Students may take a work readiness exam to be included as part of their portfolio. **PRE: Career Research & Development**

WORK-BASED LEARNING EXPERIENCE

0124102 2 Credits Grade 12

The work-based learning (WBL) experience takes place at the work site, includes a minimum of 270 hours, and may be paid or unpaid. This experience is directed by the WBL agreement and plan developed by the student, WBL coordinator, and employer. The WBL experience exposes students to authentic employment opportunities that link to student career interests. The work site placement is secured based on student interests and employer demand. The WBL coordinator monitors student placements, documents student progress, and accounts for student completion of their plan and portfolio. The student portfolio documents proficiency in workplace readiness skills and includes a copy of the employer's assessment. Students will receive a letter grade for this course based upon the number of weekly hours completed, weekly reflection journals, and monthly evaluations from the employer. **PRE:** *Career Research & Development and Career Development Seminar or concurrent enrollment in Career Development Seminar* 

HEALTHCARE INTERNSHIP

0109801 1 Credit Grade 12
0109802 2 Credits Grade 12

This course offers a work-based learning experience for a minimum of 6 hours per week in a healthcare setting. Students work in close conjunction with a professional healthcare provider. Students observe and interact with professionals performing related healthcare activities. The internship provides the opportunity for professional and personal growth. Students will receive a letter grade for this course based upon the number of weekly hours completed, weekly reflection journals, and monthly evaluations from the employer. **PRE:** *Biology or Honors Biology* **REC:** *Chemistry or Honors Chemistry* 



WORLD LANGUAGES

The focus of the world languages program for grades 9-12 is on students developing a level of proficiency that enables them to communicate with speakers of the target language in a culturally appropriate way, preparing them for life in today's global community, and for jobs in our pluralistic society. Through student-centered instruction, emphasizing thinking and problem solving in real-world situations, students practice the target language in a variety of ways as they develop an understanding and appreciation of other cultures and an insight into their own language and culture.

The World Languages Completer Program includes a mandatory two-course sequence of French, German, Chinese, or Spanish for all students planning to attend college. Students are encouraged to extend the sequence through Levels III, IV, and AP (where that course is available). All students are strongly encouraged to include this sequence in their graduation plan. Due to the strong emphasis on interactive communication in the world languages curriculum, these courses cannot be taken as independent study.

Students planning to attend college should note that some colleges do not recognize high school credits earned in middle school. These students should complete at least two (2) sequential world language credits while in grades 9 through 12.

The National Collegiate Athletic Association (NCAA) does not accept high school credits earned in a middle school.

CHINESE I - *RSHS Only*

1231301 1 Credit Grades 9-12

Students begin to listen, speak, read, and write in Chinese. They carry on short, basic conversations and make presentations about personal interests. They interact with spoken and written language on familiar topics and gain an understanding of selected elements of Chinese speaking cultures.

CHINESE II - *RSHS Only*

1232301 1 Credit Grades 9-12

Students develop listening, speaking, reading, and writing skills introduced in Chinese I. They use simple sentences to describe themselves and others and to talk about limited topics. They begin to connect sentences to create cohesive paragraphs and conversations. They continue to explore Chinese cultures and compare them to their own.

PRE: *Chinese I*

CHINESE III - *RSHS Only*

1233301 1 Credit Grades 10-12

Students further develop listening, speaking, reading, and writing skills. They discuss and defend opinions, and interact with language on selected topics from a personal to an abstract level. Students continue to explore Chinese culture and describe the relationships between the perspectives of Chinese speaking cultures and their practices and products. **PRE:** *Chinese II*

HONORS CHINESE IV- *RSHS Only*

1234301 1 Credit Grades 11-12

Students continue to develop listening, speaking, reading, and writing skills. They discuss a variety of topics from a personal to an abstract level and understand the main idea and key supporting ideas from a variety of spoken and written texts. Students research and explain the relationship between the perspectives, practices, and products of Chinese speaking cultures.

PRE: *Chinese III* ⚖️

AP CHINESE LANGUAGE & CULTURE - *RSHS Only*

1251302 2 Credits Grades 11-12

Students will continue to develop proficiency in Chinese and will integrate their language skills to communicate and interact with a broad base of resources. Students will study the language and culture of Chinese speaking countries using authentic materials and sources. They will discuss, debate, and analyze these cultural practices and products in order to determine their global significance and understand the underlying perspectives that define a culture. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Honors Chinese IV* ⚖️

FRENCH I

1201301 1 Credit Grades 9-12

Students begin to listen, speak, read, and write in French. They carry on short, basic conversations and make presentations about personal interests. They interact with spoken and written language on familiar topics and gain an understanding of selected elements of French speaking cultures.

FRENCH II

1202301 1 Credit Grades 9-12

Students develop listening, speaking, reading, and writing skills introduced in French I. They engage in conversations and make presentations on familiar and personal topics in the present, past, and future. They interact with spoken and written language including selected authentic materials and compare French speaking cultures to their own. **PRE:** *French I*

FRENCH III

1203301 1 Credit Grades 10-12

Students further develop listening, speaking, reading, and writing skills. They discuss and defend opinions, and interact with language on selected topics from a personal to an abstract level. Students describe the relationships between the perspectives of French speaking cultures and their practices and products. **PRE:** *French II*

HONORS FRENCH IV

1206301 1 Credit Grades 11-12

Students continue to develop listening, speaking, reading, and writing skills with an increased emphasis on reading and interacting with authentic texts. They discuss and understand arguments on a variety of topics from a personal to an abstract level. They understand the main idea and key supporting ideas from a variety of spoken and written texts. They research and analyze perspectives, practices, and products of French speaking cultures.

PRE: *French III* ⚖️

AP FRENCH LANGUAGE & CULTURE

1250302 2 Credits Grades 11-12

Students will continue to develop proficiency in French and will integrate their language skills to communicate and interact with a broad base of resources. Students will study the language and culture of French speaking countries using authentic materials and sources. They will discuss, debate, and analyze these cultural practices and products in order to determine their global significance and understand the underlying perspectives that define a culture. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Honors French IV* ⚖️

GERMAN I

1211301 1 Credit Grades 9-12

Students begin to listen, speak, read, and write in German. They carry on short, basic conversations and make presentations about personal interests. They interact with spoken and written language on familiar topics, and gain an understanding of selected elements of German speaking cultures.



GERMAN II

1212301 1 Credit Grades 10-12

Students develop listening, speaking, reading, and writing skills that were introduced in German I. They engage in conversations and make presentations on familiar and personal topics in the present, past, and future. They interact with spoken and written language including selected authentic materials and compare German speaking cultures to their own. **PRE:** *German I*

GERMAN III

1213301 1 Credit Grades 10-12

Students further develop listening, speaking, reading, and writing skills. They discuss and defend opinions, and interact with language on selected topics from a personal to an abstract level. Students describe the relationships between the perspectives of German speaking cultures and their practices and products. **PRE:** *German II*

HONORS GERMAN IV

1216301 1 Credit Grades 11-12

Students continue to develop speaking, listening, and writing skills, with an increased emphasis on reading and interacting with authentic texts. They discuss, debate, and understand arguments on a variety of topics from a personal to an abstract level. They research and analyze cultural perspectives, practices, and products of German speaking countries. **PRE:** *German III* ⚖️

AP GERMAN LANGUAGE & CULTURE

1252302 2 Credits Grades 11-12

Students will continue to develop proficiency in German and will integrate their language skills to communicate and interact with a broad base of resources. Students will study the language and culture of German speaking countries using authentic materials and sources. They will discuss, debate, and analyze these cultural practices and products in order to determine their global significance and understand the underlying perspectives that define a culture. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Honors German IV* ⚖️

SPANISH I

1221301 1 Credit Grades 9-12

Students begin to listen, speak, read, and write in Spanish. They carry on short conversations and make presentations about personal interests. They interact with spoken and written language on familiar topics, and gain an understanding of Spanish speaking cultures.

SPANISH II

1222301 1 Credit Grades 9-12

Students develop language skills introduced in Spanish I and progress to a higher level of communication. They engage in conversations and make presentations on topics about themselves and their communities in the present, past, and future. They interact with spoken and written language on familiar topics. They compare Spanish speaking cultures to their own. **PRE:** *Spanish I*

SPANISH III

1223301 1 Credit Grades 10-12

Students further develop listening, speaking, reading, and writing skills. They discuss and defend an opinion, and interact with the language on selected topics from a personal to an abstract level. Students describe the relationships between the perspectives of Spanish speaking cultures and their practices and products. **PRE:** *Spanish II*

HONORS SPANISH IV

1226301 1 Credit Grades 11-12

Students continue to develop listening, speaking, reading, and writing skills with an increased emphasis on reading and interacting with authentic texts. They discuss and understand arguments on a variety of topics from a personal to an abstract level. They understand the main idea and key supporting ideas from a variety of spoken and written texts, including works of literature. They research and analyze perspectives, practices, and products of Spanish speaking cultures. **PRE:** *Spanish III* ⚖️

AP SPANISH LANGUAGE & CULTURE

1254302 2 Credits Grades 11-12

Students will continue to develop proficiency in Spanish and will integrate their language skills to communicate and interact with a broad base of resources. Students will study the language and culture of Spanish speaking countries using authentic materials and sources. They will discuss, debate, and analyze these cultural practices and products in order to determine their global significance and understand the underlying perspectives that define a culture. To earn a weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. (AP exam fee is approximately \$93.) **PRE:** *Honors Spanish IV* ⚖️

NOTES

Technology Education Credit Courses

Intro to Engineering Design (1)
Foundations of Technology (1)
Foundations of Technology (.5) and Intro to Design & Presentation (.5)

Advanced Technology Credit Courses

Construction/Manufacturing Technology
Design & CADD Technology I
Design & CADD Technology II
Energy & Power/Transportation Technology
Applied Trades Academy I & II (*both courses must be taken*)

Career Technology Education Completer Programs

Program offerings vary by school

BIOMEDICAL SCIENCES (PLTW®)

(CCST and PHS Only)

Principles of Biomedical Sciences
Human Body Systems
Medical Intervention
Honors Biomedical Innovation™

PRE-ENGINEERING (PLTW®)

Intro to Engineering Design
Principles of Engineering
Civil Engineering & Architecture
Digital Electronics
Honors Engineering Design & Development

BUSINESS MANAGEMENT & FINANCING: MARKETING

Principles of Business Administration
and Management
Principles of Accounting and Finance
Introduction to Marketing
Advanced Marketing

PRO START®

Becoming a Food Service Professional I
Becoming a Food Service Professional II
Practical Experience as a Food Service
Professional (2 credits)

ORACLE ACADEMY

(RSHS Only)

Program Developer
Oracle I
Oracle II
AP Computer Science

CAREER RESEARCH & DEVELOPMENT

Career Research & Development
Career Development Seminar
Work-based Learning Experience (2 credits)

School of Technology CTE Completer Programs

AHP - Cert Nursing Assistant/Geriatric Nursing Assistant I & II
AHP - Cert Clinical Medical Assistant I & II
American Culinary Federation - Professional Cooking I & II
Automotive Technology I & II
Curriculum for Agricultural Science Education (CASE) I & II
Construction Trades I & II
Cosmetology I & II
Electrical Trades I & II
Fire Science/Emergency Medical Services I & II
Heavy Industrial Maintenance I & II
Homeland Security & Emergency Preparedness-Criminal Justice/Law Enforcement I & II
Interactive Media Production - Simulation & Gaming I & II
IT Networking Academy (Cisco Academy) I & II
HVAC Technology/Plumbing I & II
Natural Resources I & II
Project Lead The Way: Biomedical Sciences
Teacher Academy of Maryland I & II
Welding & Metals Technology I & II

CTE Completer Programs Offered at Local High Schools

CTE COMPLETER PROGRAM	SEQUENCE OF COURSES						ADDED VALUE		
PLTW - Biomedical Science <i>CCSF</i> <i>Perryville High School</i>	Principles of Biomedical Sciences	Human Body Systems		Medical Intervention Course **	Honors Biomedical Innovations	NA	NA	NA	Stevenson University (4 credits)
Career Research & Development	Career Research & Development	Career Development Seminar		Work-based Learning Experience (2 credits)		NA	NA	NA	NA
Business Management and Financing: Marketing	Principles of Business Administration and Management	Principles of Accounting and Finance		Introduction to Marketing	Advanced Marketing				Cecil College (6 credits)
Oracle Academy <i>Rising Sun High School</i>	Intro to Science, Engineering, & Technology	Program Developer		Oracle I*	Oracle II*	\$57 \$117			Cecil College (6 credits)
PLTW- Pre-Engineering	Introduction to Engineering Design	Principles of Engineering	Civil Engineering/ Architecture	Digital Electronics	Honors Engineering, Design, & Development	NA	NA		UMBC (3 credits)
ProStart®	Becoming a Food Service Professional I*	Becoming a Food Service Professional II*		Food Service Professional Internship (2 credits)			\$20 \$20		Delaware Technical and Community College (3 credits)

* Certification test taken at the end of this course.

** The concentrator course is the 3rd course in a four-course completer sequence (or the course coming after completing 50% of the program).

*** The completer course is the last or capstone course of a CTE completer program.

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AP Environmental Science.....	57	English 12.....	44	Simulation & Gaming I.....	41	Studio Drawing.....	48
AP French Language & Culture.....	65	Entrepreneurship.....	37	Interactive Media Production-		Studio Drawing/Painting.....	48
AP German Language & Culture.....	66	Environmental Science.....	57	Simulation & Gaming II.....	41	Studio Photography.....	48
AP Human Geography.....	61	ESOL English I.....	45	Intro to Bus., Finance, & Marketing.....	38	Studio Sculpture/Ceramics.....	48
AP Language & Composition.....	44	ESOL English II.....	45	Intro to Dance.....	49	Teacher Academy of Maryland I.....	42
AP Literature & Composition.....	45	ESOL English III.....	45	Intro to Design & Presentation.....	63	Teacher Academy of Maryland II.....	42
AP Music Theory.....	50	Fire Science/EMS I.....	40	Intro to Engineering Design.....	55	The Art of Expression.....	46
AP Physics 1.....	58	Fire Science/EMS II.....	40	Intro to Marketing.....	37	The Art of Expression II: Film Study.....	46
AP Physics 2.....	58	Fitness Walking.....	54	Intro to Public Service.....	38	Theatre.....	49
AP Physics "C".....	59	Foundations of Art.....	47	Intro to Science, Engineering & Tech.....	38	Theatre Design.....	49
AP Psychology.....	61	Foundations of Technology.....	63	IT Net working Academy (Cisco		Topics of Mathematics.....	52
AP Spanish Language & Culture.....	66	French I.....	65	Academy) I.....	41	Trade Experience.....	42
AP Statistics.....	53	French II.....	65	IT Networking Academy (Cisco		Transitional Career Readiness.....	62
AP Studio Art.....	48	French III.....	65	Academy) II.....	41	Transitional English.....	62
AP US Government and Politics.....	60	Geometry.....	51	ITO Automotive.....	62	Transitional Math.....	62
AP US History.....	61	German I.....	65	ITO Construction Trades.....	62	Transitional Science.....	62
Applied Science/CASE.....	40	German II.....	66	ITO Fire Science/EMS.....	62	Trig/Functions/Stats.....	52
Applied Science/Cosmetology.....	40	German III.....	66	ITO Natural Resources.....	62	US History.....	60
Applied Science/Natural Resources.....	42	Gifted & Talented Dance.....	49	Jazz Ensemble.....	49	Welding & Metals Technology I.....	42
Applied Trades Academy I.....	39	Government.....	60	Learning for Independence.....	62	Welding & Metals Technology II.....	42
Applied Trades Academy II.....	39	Guitar I.....	50	Lifetime Activities/Self-Awareness.....	54	Work-based Learning Experience.....	64
Automotive Technology I.....	39	Guitar II.....	50	Media Publications.....	45	World History.....	60
Automotive Technology II.....	39	Healthcare Internship.....	64	Medical Intervention.....	55	World Mythology.....	46
Band.....	49	Health Education I.....	54	Microsoft Professional I.....	37	Yearbook.....	46
Band Front.....	50	Health Education II.....	54	Music Keyboard I.....	50	Zoology.....	59
Becoming A Food Service Prof. I.....	56	Heavy Industrial Maintenance I.....	41	Music Keyboard II.....	50		
Becoming A Food Service Prof. II.....	56	Heavy Industrial Maintenance II.....	41	Music Theory I.....	50		
Biology.....	57	History of American Music.....	49	Music Theory II.....	50		
Business Ed Internship.....	37	Homeland Security & Emergency		Natural Resources I.....	42		
Calculus.....	53	Preparedness-Criminal Justice/Law		Natural Resources II.....	42		
Career Development Seminar.....	63	Enforcement I.....	41	Oracle I.....	43		
Career Research & Development.....	63	Homeland Security & Emergency		Oracle II.....	43		
Chemistry.....	58	Preparedness-Criminal Justice/Law		Personal Fitness.....	54		
Chinese I.....	64	Enforcement II.....	41	Photography I.....	47		
Chinese II.....	64	Honors Algebra II.....	52	Photography II.....	48		
Chinese III.....	65	Honors Biology.....	57	Physical Education 10.....	54		
Chorus.....	49	Honors Biomedical Innovations.....	55	Physics.....	58		
Civil Engineering & Architecture.....	55	Honors Chemistry.....	58	PLTW: Biomedical Sciences I.....	42		
College and Career Literacy.....	45	Honors Chinese IV.....	65	PLTW: Biomedical Sciences II.....	42		
Communicating Through the Arts.....	38	Honors Drama I.....	49	Prac. Exper/Food Service Prof.....	56		
Concert Choir.....	49	Honors Drama II.....	49	Pre-Algebra.....	51		
Construction/Manufacturing Tech.....	63	Honors Earth Science.....	57	Pre-Calculus.....	52		

Student Graduation Plan

Name: _____ Last _____ First _____ MI _____ High School: _____

Career Goals: _____

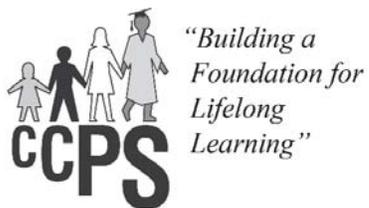
Career Cluster Pathway:

- Arts & Communications
 - Pathway _____
- Health & Human Services
 - Pathway _____
- Science, Engineering & Technology
 - Pathway _____
- Business, Finance, & Marketing
 - Pathway _____

Service Learning:		REQUIREMENTS:			
		Passed	Hrs.	Score	Date Met
6	_____	PARCC: Algebra	_____	_____	
7	_____	PARCC: English 10	_____	_____	
8	_____	HSA: Biology	_____	_____	
9	_____	HSA: Government	_____	_____	
	_____	Combined	_____	_____	

Unweighted GPA _____ Weighted GPA _____ Complete Program: _____ World Lang. _____ Advanced Tech _____ CTE _____

	Required	Grade 9		Grade 10		Grade 11		Grade 12		Grade	Credit
		Grade	Credit	Grade	Credit	Grade	Credit	Grade	Credit		
English (4)											
Social Studies (4)											
Science (3)											
Mathematics (4)											
Health (1)											
Physical Education (1)											
Tech Ed (1)											
Fine Arts (1)											
Pathway Req. (6)											
Pathway Required (2)											
Complete Program (2-10)											
Pathway Options (2)											
TOTAL CREDITS (25)											
Additional Credits Earned											



Cecil County Public Schools
201 Booth Street
Elkton, Maryland 21921
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